STUDY NO. 00-4203
SPONSOR STUDY NO. 211-EtOH-1G

GASOLINE ETHANOL VAPOR CONDENSATE

A ONE-GENERATION WHOLE-BODY INHALATION REPRODUCTION

TOXICITY STUDY IN RATS

Final Report

Volume I of II

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: 18 March 2009

STATEMENT OF COMPLIANCE

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

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

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

Date

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

02/20/2009
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 DD).

16MAR09

Gary M. Hoffman, B.A., D.A.B.T. Date
Study Director

16th March 2009.

Dianne Creasy, Ph.D., DipRCPath (Tox), FRCPath. Date
Senior Director of Pathology[1]

SCIENTIFIC REVIEW

The following Scientists have reviewed and approved this report.

17MAR09

Robert M. Parker, Ph.D., D.A.B.T. Date
Director, Developmental and Reproductive Toxicology

16 March 09

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

[1]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. Dianne Creasy 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.

Type of Inspection	Date(s) of Inspection	Reported to Study Director and Management
PAI Subcontractor Facility Inspection	24 Apr 01	02 Nov 01
GLP Protocol Review	19 Nov 01	19 Nov 01
Exposure, Monitoring and Equipment Records	22 Jan 02	22 Jan 02
Body Weights	11 Feb 02	11 Feb 02
Vaginal Smears and Training Records	11 Mar 02	11 Mar 02
Test Substance Characterization	24 Apr 02	24 Apr 02
Exposure: Particle Size Sampling and Equipment Records	02 May 02	02 May 02
Terminal Sacrifice (Males) and Sperm Assessment	07 May 02	07 May 02
Pup Necropsy	20 May 02	20 May 02
Final Analytical Report and Study Data	04, 05, 18, 19 Sep 02	19 Sep 02
Report Draft and Study Data	03-06, 09-13, 16-20, 23 Sep 02	23 Sep 02
Final Report Review & Protocol Amendment No. 1	29 & 30 Jan 09	30 Jan 09

Fran Jannone — 16 Mar 09

Fran Jannone, B.A., RQAP-GLP
Quality Assurance Group Leader

Date

Gasoline Ethanol 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 Ethanol 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^3 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_0 generation) were sacrificed. All parental female animals (P_0 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 selected parental animals.

Pups (F_1 generation) were observed as soon as possible after delivery for their sex, the number of live and dead pups and pup abnormalities. Thereafter, litters were observed twice daily. On the 4th day after parturition, litters with more than ten pups were randomly culled to ten pups with sex distribution equalized when possible. Pups were given a gross physical examination, were weighed and were sexed frequently until weaning on the 28th day after parturition at which time they were sacrificed. A macroscopic postmortem evaluation and the weighing of selected organs were performed on selected pups.

The mean (± standard deviation) analytical exposure concentrations of Gasoline Ethanol Vapor Condensate were determined to be 0 ± 0, 2068 ± 224, 10130 ± 320 and

SUMMARY

20300 ± 1042 mg/m^3 for the Air Control and the exposure groups, respectively. The analytically measured exposure levels of the airborne test substance were acceptably close to the targeted exposure levels. The measured and nominal concentrations varied somewhat (less than 6%), but acceptably, from the expected 1:1 ratio for this type of vapor exposure. Chamber environmental conditions averaged 25ºC temperature and 44% relative humidity. Particle sizing results indicated that the atmospheres were essentially vapor only, as expected, since there was no substantial difference between the particulate levels in the test substance chambers and the Air Control chamber. Analysis of the major components in the neat test substance and the test atmospheres showed an acceptably close comparison between the neat test substance and the vaporized test substance. This data demonstrated that the test animals were exposed, as expected, to all of the major components of the test substance in their reasonably proper proportion. The data was consistent from week-to-week during the study indicating stability of the test substance and the atmosphere generation techniques.

There was no effect of exposure on survival, clinical observations, 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. An exposure-related decrease in body weight and body weight gain was seen in the 20000 mg/m^3 animals during the premating period. There were also no exposure-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 exposure-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 (28 day survival) indices, the number of implantation sites per litter, the pup sex ratio and the number of live pups/litter, when compared to the Air Control group. Mean percent motility, epididymal sperm count, homogenization-resistant testicular sperm count, sperm morphology and caudal epididymis weight were not affected by exposure to the test substance at an exposure level of 20000 mg/m^3.

There were no exposure-related differences in macroscopic postmortem evaluations in the test substance exposed animals compared to the Air Control animals. Exposure-related effects on organ weights included statistically significant increases in kidney weights (absolute and/or relative to body and brain weight) at all exposure levels in the males. These differences for the males were consistent with the hydrocarbon nephropathy 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

SUMMARY

rats exposed to a variety of hydrocarbon compounds and is not considered relevant to humans. No test substance related microscopic changes were noted in male and female reproductive organs or other protocol-specified tissues in this study.

The pups were unremarkable during the lactation period. There were no exposure-related differences in body weights, 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^3 of vapor of Gasoline Ethanol Vapor Condensate resulted in decreased body weight gains in the 20000 mg/m^3 exposed parental animals during the premating interval. Increases in kidney weights in parental male animals exposed to all 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-observed-adverse-effect level (NOAEL) of 10000 mg/m^3 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. Therefore, a NOAEL of 20000 mg/m^3 of Gasoline Ethanol Vapor Condensate was concluded for reproductive effects.

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1. INTRODUCTION

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

17 December 2001 (Date Study Director signed the Protocol)

2.2.2. DATE OF ANIMAL RECEIPT

8 January 2002

2.2.3. EXPOSURE INITIATION

21 January 2002 (Experimental Start Date)

2.2.4. MATING INITIATION

31 March 2002

2.2.5. EXPOSURE TERMINATION

2 June 2002

2.2.6. TERMINAL SACRIFICE

P_0 Males: 7 – 8 May 2002
P_0 Females: 26 April – 3 June 2002
Pups: 20 May – 3 June 2002

2.2.7. EXPERIMENTAL TERMINATION DATE

16 March 2009 (Date of last data collection = Date Pathologist signed the Final Report)

2.2.8. STUDY COMPLETION

18 March 2009 (Date Study Director signed the Final Report)

2.3. EXPERIMENTAL OUTLINE

Group	Group Designation	Exposure Levels (mg/m^3)[a]	Number of Animals				
			Mated Adults		Microscopic Pathology Adult Generations[b]		Macroscopic Postmortem Examinations - Pups
			P_0		P_0		F_1
			M	F	M	F	
I	Control	0 (air only)	26	26	10	10	3/sex/litter
II	Low	2000	26	26	0	0	3/sex/litter
III	Middle	10000	26	26	0	0	3/sex/litter
IV	High	20000	26	26	10	10	3/sex/litter

[a]Exposures daily (7 days/week) for 6 hours per day.
[b]Histologic examinations were performed on reproductive tissues for the control and high-exposure animals.

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

2.4. TEST SUBSTANCE

Gasoline Ethanol Vapor Condensate

2.4.1. SUPPLIER

Chevron Global Technology Services Company
100 Chevron Way
Richmond, CA 94802-9627

2.4.2. LOT NUMBER

API 01-03

2.4.3. PURITY/ANALYTICAL CONCENTRATION

100% Gasoline Ethanol Vapor Condensate (see Appendix B for details of the components) which contained approximately 10% ethanol.

2.4.4. DESCRIPTION

Colorless Liquid

2.4.5. DATES RECEIVED

25 April 2001

2.4.6. EXPIRATION DATE

Not available, stable per MSDS. The test substance stability was tested (see 2.3.2 in Appendix A and Appendix B) concurrently with the study and the results showed it to be stable for the duration of the study.

2.4.7. ANALYSIS

Documentation of the identity, strength, composition, and method of synthesis, fabrication and/or derivation of the batch of the test substance and the maintenance of these records was the responsibility of the Sponsor.

2.4.8. STORAGE

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

2.4.9. DISPENSING

The test substance was received from Chevron Global Technology Services Company in 5 gallon and 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

A sample from the lot of 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 were returned to the Sponsor on 5 August 2002 following completion of the study. Empty test substance containers also were returned to the Sponsor on an as needed basis. The Sponsor was responsible for tracking their disposition.

2.5. TEST ANIMALS

Albino Rats (Outbred) VAF/Plus®

2.5.1. SPECIES

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

2.5.2. SUPPLIER

Charles River Laboratories
Kingston, New York 12484

2.5.3. JUSTIFICATION FOR TEST ANIMAL SELECTION

The rat was used as a surrogate to humans in the detection of reproductive effects and is a species in which known reproductive toxicants have been detected. The rat is a rodent animal model commonly utilized in reproduction studies and is recommended in the referenced guidelines. 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 41 days.

2.5.7. WEIGHT AT INITIATION OF EXPOSURES (GRAMS)

	Mean	**Range**
Male:	198	161-228
Female:	143	112-175

Individual weights of animals placed on test not within ±20% of the mean weight for each sex were at the discretion of the Study Director.

2.5.8. ACCLIMATION PERIOD

Animals were acclimated for 13 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. Disposition of all animals not utilized in the study is maintained in the study file.

2.7. ANIMAL IDENTIFICATION

Each rat was assigned a temporary identification number upon receipt. After selection for study (P_0 generation), each rat was identified with a metal ear tag bearing its assigned animal number. The assigned animal number plus the study number comprised the unique animal number for each animal. If the tag was lost, it was replaced. In addition, each cage was provided with a cage card that was color-coded for exposure level identification and contained the study number and animal number information.

2.8. VETERINARY CARE

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

2.9. ANIMAL HUSBANDRY DURING NON-EXPOSURE PERIODS

2.9.1. FACILITIES MANAGEMENT/ANIMAL HUSBANDRY

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

2.9.2. HOUSING

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

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

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

2.9.3. FEED

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

2.9.4. FEED ANALYSIS

Analysis of each feed lot used during this study was performed by the manufacturer. Results can be found in Appendix 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® 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.

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:	15.4 to 24.5 °C
Average:	18.9 to 22.7 °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:	17.35 to 99.81%
Average:	26.11 to 71.44%

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 to 15 per hour
Actual:	14.1 to 14.7 per hour

2.10. TEST SUBSTANCE ADMINISTRATION AND CHAMBER OPERATION

Inhalation (whole-body exposures)

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

2.11. MATING, GESTATION AND LACTATION PROCEDURES

2.11.1. ESTROUS CYCLING

Daily vaginal smears were taken at approximately the same time each day, and the stage of estrous was determined for each P_0 female beginning three weeks prior to cohabitation and continued until there was evidence of mating or until the 14-day mating period ended.

2.11.2. 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.

2.11.3. PATURITION 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. EXPERIMENTAL EVALUATIONS

2.12.1. VIABILITY EXAMINATION (CAGESIDE)

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

2.12.2. 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 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 observed weekly until euthanized on the last possible Gestation Day 25. Examinations included, but were not

limited to, observations of general condition, skin and fur, eyes, nose, oral cavity, abdomen and external genitalia, as well as, evaluations of respiration and palpation for tissue masses. During the exposure period, physical examinations were performed post-exposure.

2.12.3. 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.

2.12.4. 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) =

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

[a]The average of the current and previous weight was used.

2.12.5. LITTER EVALUATIONS (F_1)

Observations

F_1 litters were observed as soon as possible after delivery for the number of live and dead pups, sex of the pups and pup abnormalities. The sex was determined on the day of delivery

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

Culling Pups

On Day 4 of lactation, each litter with more that 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_1 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_1 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_0)

Necropsy Information

Necropsy was performed on all parental animals (26 animals/sex/group). All P_0 males were euthanized two days after the last F_1 litters were delivered. All P_0 females with litters

were euthanized on Day 28 of lactation. P_0 females with no confirmed day of mating were euthanized on last possible Gestation Day 25. P_0 females with confirmed days of mating that did not deliver were euthanized on Gestation Day 25.

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_0 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 in the control and high exposure groups. In addition, the epididymides, prostate, testis, and seminal vesicles were examined for all P_0 control and

high exposure males. Any abnormalities not noted during macroscopic examinations which were seen during histology processing were recorded.

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

Histopathological examination of the ovary included evaluation of five sections taken at least 100 µm apart from the inner third of each ovary. These examinations could have detected depletion of the primordial follicle population and enumerated the total number of primordial follicles for comparison with the ovaries from control animals. These examinations could have also confirmed the presence or absence of growing follicles and corpora lutea in comparison to control ovaries. Qualitative evaluations of the P_0 animals were performed by HLS.

TABLE I

ORGAN NAME	WEIGHED	PRESERVED	EXAMINED MICROSCOPICALLY (Groups I and IV)
adrenal glands	X	X	X
brain (medulla, pons, cerebrum and cerebellum)	X	X	
epididymides (total and caudal)	X	X[a]	X[a]
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[a]	X[a]
uterus (body/horns) with cervix and oviducts	X	X	X
vagina		X	X
tissues with macroscopic findings including tissue masses		X	X

[a]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_1 PUPS

Method of Euthanasia

F_1 pups were euthanized by carbon dioxide asphyxiation.

Dead and Culled Pups

F_1 pups found dead soon after birth were categorized using a lung flotation test as stillborn or born live but found dead. If the lung flotation test was not conducted, then the pup was categorized as stillborn. F_1 pups found dead during the lactation period were examined to the maximum extent possible for defects and/or the cause of death, and for the presence or absence of milk in the stomach. Dead pups were preserved intact in 10% NBF. Partially cannibalized pups were examined to the maximum extent possible and discarded. Culled F_1 pups were examined for external abnormalities. If unremarkable, these pups were then euthanized via an intraperitoneal injection of sodium pentobarbital and discarded. Culled F_1 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. The epididymides, prostate, testes, and seminal vesicles from all P_0 control and high exposure animals were preserved in 10% neutral buffered formalin (NBF).

All remaining F_1 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_0 males (samples and images were collected but not evaluated for all other males): 1) motility; 2) a count of homogenization-resistant testicular sperm; 3) a count of caudal epididymal sperm; and 4) sperm morphology (cauda epididymis). Evaluations were performed by Pathology Associates International, Frederick, MD (PAI) as follows:

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

The left epididymis was removed intact, weighed, and frozen on dry ice for transport to PAI. The epididymides were stored frozen at -70°C until evaluation for caudal sperm count. Each epididymis was thawed and the

caudal portion removed and weighed. A homogenized sample of the caudal epididymis was stained and then examined using the Hamilton Thorne IVOS sperm analyzer. For each stained preparation, 20 fields were counted. The total number of sperm in the caudal epididymis was calculated and adjusted for the caudal epididymal weight. Additionally, for each male, two sperm morphology slides were prepared, stained with Eosin and evaluated for morphological development.

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

The left testis was removed and frozen on dry ice for transport to PAI. The testis were stored frozen at -70°C until processed for counting of homogenization-resistant sperm.

When macroscopic abnormalities were noted on left testis or left epididymis, then the right testis and right epididymis were transferred to PAI and left testis and the left epididymis were preserved as indicated for possible histopathology.

(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 length
Gestation length

Pup body weights
Number of pups (live, dead, total)

Method of Analysis

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

Evaluation of equality of group means was made by the appropriate statistical method, followed by a multiple comparison test if needed. The parametric method was the standard one-way analysis of variance (ANOVA) using the F ratio to assess significance (Dunlap and Duffy, 1975). If significant differences among the means were indicated, Dunnett's test (Dunlap et al., 1981) was used to determine which means were significantly different from the control. The nonparametric method was the Kruskal-Wallis test (Kruskal and Wallis, 1952, 1953) and if differences were indicated, Pairwise Comparison with Bonferroni Correction (Games and Howell, 1976) was used to determine which means differed from control. All statistical 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 sperm count and caudal epididymal sperm count) and motility data.

A Kruskal-Wallis non-parametric ANOVA test was performed to assess significance (Kruskal and Wallis, 1952, 1953). If a significant difference occurred ($p<0.05$), the Wilcoxon (Mann-

Whitney U) test (Kruskal, 1957) was used for pair-wise comparisons of each treated group to the vehicle control group. Animals with fewer than 25 sperm cells present in the motility analysis were excluded. Animals with at least 25 sperm cells were included in statistical analysis; however, animals with fewer than 50 cells were identified to have a low count. The mean caudal epididymus weight was compared using one-way analysis of variance (ANOVA) technique. If ANOVA was significant, Dunnett's test (Dunnett, 1955, 1964) was used for pair-wise comparisons of each treated group to the control group at the 5% and 1% risk levels. Statistics were performed using an IBM compatible computer with SAS computer programs (SAS/STAT User's Guide, 1989).

2.15.3. INCIDENCE DATA

The following parameters were analyzed statistically:

Mortality rates
Mating indices (male and female)
Pregnancy rates
Estrous cycle numbers
Male fertility indices
Live birth indices
Pup viability indices (Days 0-4) and lactation indices (Days 4-28)

Incidence Data Analysis

Analyzed using the Chi-square test (2 x n) (Mantel, 1963). If Chi-square analysis was not significant, no additional analyses were performed. If Chi-square is significant, 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 1st 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' 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 technician error, adrenal organ weights were taken incorrectly for P_0 male Animal No. 1065 and P_0 male Animal No. 2059. These organ weights were not reported.

2. The Study Director did not authorize the use of animals on the study that were outside of the protocol's body weight range at initiation.

3. Due to technician error, a final body weight was not recorded for P_0 female Animal No. 3552 that was noted as not pregnant with no evidence of mating.

4. The left testis specimens were stored frozen at PAI at -70°C until processed for sperm count instead of at -20°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 (± standard deviation) analytical (IR) and nominal concentrations are summarized as follows:

Group	Test Substance	Target Concentration (mg/m^3)	Analytical Concentration (mg/m^3)	Nominal Concentration (mg/m^3)
I	Air Control	0	0 ± 0	0 ± 0
II	Gasoline Ethanol Vapor Condensate	2,000	2068 ± 224	2057 ± 232
III	Gasoline Ethanol Vapor Condensate	10,000	10130 ± 320	10807 ± 391
IV	Gasoline Ethanol Vapor Condensate	20,000	20300 ± 1042	19525 ± 946

The 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 6%), but acceptably, from the expected 1:1 ratio for this type of vapor exposure. Chamber environmental conditions averaged 25 ºC temperature and 44% relative humidity.

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

Group	Test Substance	Mass Median Aerodynamic Diameter (µm)	Geometric Standard Deviation	Total Mass Concentration (mg/m^3)
I	Air Control	2.625	2.198	5.19×10^{-3}
II	Gasoline Ethanol Vapor Condensate	3.424	2.177	8.12×10^{-3}
III	Gasoline Ethanol Vapor Condensate	2.318	2.241	4.44×10^{-3}
IV	Gasoline Ethanol Vapor Condensate	2.561	2.016	4.80×10^{-3}

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 reasonably proper proportion. The only difference (expected based on the results of the prior study 00-6127) was seen in the data for Ethanol. The levels of Ethanol measured in the test atmospheres were ~20% less than measured in the neat test substance. This was partially attributed to an inefficiency in extracting Ethanol from charcoal tubes using carbon disulfide. It was determined that carbon disulfide needs to be combined with 2-butanol to provide a closer to 100% efficiency in Ethanol extraction. However, since 2-butanol would have interfered with analysis of other test substance components, it was not used but instead an extraction efficiency correction factor was developed and used. The data were consistent from week-to-

week during the study indicating stability of the test substance and the atmosphere generation techniques.

3.2. PARENTAL DATA (P_0 GENERATION)

3.2.1. MORTALITY

(Table 1, Appendix C)

There was no effect of exposure on survival. All animals survived until their schedule termination.

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 premating period in both sexes, the mating/postmating period in the male rats, and the gestation and lactation periods in the female rats. Scattered observations such as chromodacryorrhea and lacrimation were noted but were not exposure-related.

3.2.3. BODY WEIGHTS – PREMATING PERIOD

(Tables 5 and 6; Appendices G and H)

An exposure-related decrease in body weights and body weight gain was seen in the 20000 mg/m^3 animals. There were no exposure-related differences in body weights or weight changes in the lower exposure level animals compared to the Air Control animals. A few other statistically significant differences in body weights or weight changes were noted at several intervals for some exposed groups. However, these were not in an exposure-related pattern and were not attributed to the test substance.

3.2.4. MATERNAL BODY WEIGHTS - GESTATION AND LACTATION PERIODS

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

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

3.2.5. FEED CONSUMPTION – PREMATING PERIOD

(Table 11; Appendix M)

There were no exposure-related differences in feed consumption in the test substance exposed animals compared to the Air Control animals. A statistically significant difference was only noted at one interval (days 28-35 for the 20000 mg/m^3 female animals) after exposures were initiated. However, the absolute difference was small and was not considered adverse or exposure-related.

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.

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. At least 1 (and up to 3) animals in each test group had extended periods of diestrus or estrus indicative of pseudopregnancy. However, all of these animals (except No. 3552) eventually were confirmed mated during the mating period or were confirmed pregnant during the gestation period.

3.2.8. MATING, FERTILITY AND GESTATION INDICES

(Tables 15 and 16; Appendices Q and R)

Mating indices for the male rats treated with the test substance were comparable to the Air Control group. Mating, fertility and gestation indices for the female rats treated with the test substance were comparable to the Air Control group. Most of the females in each group mated at the first opportunity (first estrous after initial pairing). There were also no exposure-related differences in the other reproductive parameters up to the time of parturition including the percent of females completing delivery and the duration of gestation, when compared to the Air Control group.

3.2.9. PARTURITION AND LITTER SURVIVAL DATA

(Table 16; Appendices R and S)

Parturition data for the female rats treated with the test substance were comparable to the Air Control group. There were also no exposure-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.

3.3. PUP DATA (F_1 GENERATION)

3.3.1. BODY WEIGHT DATA

(Tables 16 and 18; Appendix U)

There were no exposure-related differences in body weights or weight gains in the pups feeding from test substance exposed animals compared to the pups feeding from Air Control animals. The marginal deficit in weights in the pups in the 20000 mg/m^3 group was commensurate with the slightly larger pre-culling litter size in this group.

3.3.2. OBSERVATION DATA

(Table 17; Appendix T)

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

3.4. POSTMORTEM DATA

3.4.1. MACROSCOPIC POSTMORTEM EVALUATIONS - PARENTAL GENERATION

(Table 19; Appendices V and Z)

There were no exposure-related differences in macroscopic postmortem evaluations in the test substance exposed animals compared to the Air Control animals. Scattered observations such as lung discoloration were noted but were not exposure-related.

3.4.2. ORGAN WEIGHTS - PARENTAL GENERATION

(Table 21; Appendix X)

Exposure-related effects on organ weights included statistically significant increases in kidney weights (absolute and/or relative to body and brain weight) at all exposure levels in the males. These differences for the males were consistent with the hydrocarbon nephropathy findings at these exposure levels in the 13-week inhalation study 00-6127 with this same 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.

There were no other meaningful differences from Control among the organ weights. A few statistically significant differences in organ weights (absolute and/or relative to body and brain weight) were noted (such as for the liver) for some exposed groups. However, these were not in an exposure-related pattern, the absolute differences were small and/or were only seen in 1 sex and were not attributed to the test substance.

Increases in mean prostate and seminal vesicle/coagulating gland weights were apparent in all exposed groups, but there was no dose-related trend with the difference in prostate weight being approximately similar across all the exposure levels, while seminal vesicle/coagulating gland weight was highest in the lowest exposure group. It is also notable that increased prostate weight was not associated in any consistent way with increased seminal vesicle/coagulating gland weight in the same animal, as would be expected if there were a hormone-mediated effect on these accessory organs. Furthermore, there was no histopathological evidence of change in these organs (see Section 3.4.6). It was considered overall that these particular differences from Control were not an effect of the exposures.

3.4.3. SPERM EVALUATIONS – PARENTAL GENERATION (Appendix AA)

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

3.4.4. MACROSCOPIC POSTMORTEM EVALUATIONS - PUPS (Table 20; Appendices S, U and W)

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

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^3 of vapor of Gasoline Ethanol Vapor Condensate resulted in decreased body weight and body weight gains in the 20000 mg/m^3 exposed parental animals during the premating interval. Increases in kidney weights in parental male animals exposed to all 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-observed-adverse-effect level (NOAEL) of 10000 mg/m^3 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. Therefore, a NOAEL of 20000 mg/m^3 of Gasoline Ethanol Vapor Condensate was concluded for reproductive effects.

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	CALCULATIONS	

Female Mating Index:

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

Female Fertility Index:

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

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^3)
I	Control	0 (air only)
II	Low	2000
III	Middle	10000
IV	High	20000

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TABLE 1 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
No. of males at start	N	26	26	26	26
Premating					
- Died/sacrificed	N	0	0	0	0
Postmating					
- Died/sacrificed	N	0	0	0	0
No. of females at start	N	26	26	26	26
No. of females cohabitated	N	26	26	26	26
- Without evidence of mating	N	0	0	1	0
Pregnant	N	0	0	0	0
Nonpregnant	N	0	0	1	0
Pregnant	N	25	25	25	25
- Died/sacrificed	N	0	0	0	0
- Died delivering	N	0	0	0	0
- Died/sacrificed post partum	N	0	0	0	0
- Aborted died/sacrificed	N	0	0	0	0
Nonpregnant	N	1	1	1	1
- Died/sacrificed	N	0	0	0	0
Total females died/sacrificed	N	0	0	0	0
	%	0.0	0.0	0.0	0.0
Dams delivering	N	25	25	25	25
- With liveborn pups	N	25	25	25	25
	%	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.

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^3
Group II - 2000 mg/m^3
Group III - 10000 mg/m^3
Group IV - 20000 mg/m^3

Generation Intervals:

P_0 Animals
Premating: Weeks –1 to 10
Mating: Weeks 10 to 12
Postmating: Weeks 13 to 16

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TABLE 2 - P0 GENERATION

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

MALES

SUMMARY OF CLINICAL OBSERVATIONS

	GROUP#	DAY OF STUDY -7	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	106	107	TOTAL
# OF ANIMALS EXAMINED	I	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
	II	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
	III	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
	IV	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
Normal																					
WITHIN NORMAL LIMITS	I	26	26	26	25	23	23	23	22	21	21	20	20	20	20	20	20	20	0	0	26
	II	26	26	26	24	25	23	23	18	16	16	16	18	15	16	18	16	15	0	0	26
	III	26	26	24	24	23	24	23	22	22	21	20	18	18	18	17	17	16	0	0	26
	IV	26	26	26	24	22	19	19	19	18	18	18	18	17	18	18	17	18	0	0	26
Dead																					
TERMINAL SACRIFICE	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	26
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	26
	III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	26
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	26
Dermal-General																					
ALOPECIA - EXTREMITIES/SNOUT	I	0	0	0	1	3	3	3	4	4	4	5	5	5	5	5	5	5	0	0	5
	II	0	0	0	2	1	3	3	8	10	10	10	8	11	10	8	10	10	0	0	15
	III	0	0	1	1	1	1	1	2	2	3	4	5	5	5	6	6	7	0	0	7
	IV	0	0	0	2	4	6	6	6	6	6	6	6	7	6	5	6	6	0	0	7
SCABS	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	IV	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
ALOPECIA - GENERAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
	III	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1
	IV	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1

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TABLE 2 - P0 GENERATION

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

MALES — SUMMARY OF CLINICAL OBSERVATIONS

	GROUP#	DAY OF STUDY -7	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	106	107	TOTAL
# OF ANIMALS EXAMINED	I	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
	II	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
	III	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
	IV	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
BLACK/BROWN STAINS ON SNOUT	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
	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	0	0
Ocular																					
CHROMODACRYORRHEA - BILATERAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	III	0	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	1
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACRIMATION - UNILATERAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	III	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	0	1	0	0	2
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHROMODACRYORRHEA - UNILATERAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	III	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	1	1	0	0	2
	IV	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	2
LACRIMATION - BILATERAL	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	III	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
	IV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oral/Buccal																					
INCISORS MALOCCLUDED	I	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	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	1	0	1	1	1	1	1	2	3	3	2	2	2	0	0	4
	IV	0	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	0	0	2

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TABLE 2 - P0 GENERATION

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

MALES

SUMMARY OF CLINICAL OBSERVATIONS

		DAY OF STUDY																			
	GROUP#	-7	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	106	107	TOTAL
# OF ANIMALS EXAMINED	I	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
	II	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
	III	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
	IV	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	13	13	
INCISORS BROKEN/MISSING	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	II	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	III	0	0	0	0	0	1	1	1	2	2	2	2	2	2	3	3	3	0	0	3
	IV	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	2

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TABLE 2 - P0 GENERATION

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

FEMALES — SUMMARY OF CLINICAL OBSERVATIONS

	GROUP#	DAY OF STUDY -7	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	TOTAL
# OF ANIMALS EXAMINED	I	26	26	26	26	26	26	26	26	26	26	26	23	1	1	1	1	0	
	II	26	26	26	26	26	26	26	26	26	26	26	23	0	0	0	0	0	
	III	26	26	26	26	26	26	26	26	26	26	26	21	3	2	2	1	1	
	IV	26	26	26	26	26	26	26	26	26	26	26	22	3	3	3	0	0	
Normal																			
WITHIN NORMAL LIMITS	I	26	26	26	26	26	25	25	24	23	22	22	19	1	1	1	1	0	26
	II	26	26	26	26	26	26	26	24	22	24	23	20	0	0	0	0	0	26
	III	26	26	26	26	26	26	26	26	26	24	23	18	3	2	2	1	1	26
	IV	26	26	26	26	25	24	24	23	22	21	21	18	3	3	3	0	0	26
Dermal-General																			
ALOPECIA - EXTREMITIES/SNOUT	I	0	0	0	0	0	0	0	1	1	2	2	2	0	0	0	0	0	2
	II	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	2
	III	0	0	0	0	0	0	0	0	0	2	3	3	0	0	0	0	0	3
	IV	0	0	0	0	1	2	2	3	3	4	4	3	0	0	0	0	0	4
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	1	1	1	1	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	1	1	1	1	1	0	0	0	0	0	1
Ocular																			
LACRIMATION - 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
CHROMODACRYORRHEA - UNILATERAL	I	0	0	0	0	0	1	1	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	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

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TABLE 2 - P0 GENERATION

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

FEMALES

SUMMARY OF CLINICAL OBSERVATIONS

	GROUP#	DAY OF STUDY -7	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	TOTAL
# OF ANIMALS EXAMINED	I	26	26	26	26	26	26	26	26	26	26	26	23	1	1	1	1	0	
	II	26	26	26	26	26	26	26	26	26	26	26	23	0	0	0	0	0	
	III	26	26	26	26	26	26	26	26	26	26	26	21	3	2	2	1	1	
	IV	26	26	26	26	26	26	26	26	26	26	26	22	3	3	3	0	0	
Oral/Buccal																			
INCISORS MALOCCLUDED	I	0	0	0	0	0	0	0	0	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	1	1	1	1	0	0	0	0	0	1
INCISORS BROKEN/MISSING	I	0	0	0	0	0	1	1	1	2	2	1	1	0	0	0	0	0	2
	II	0	0	0	0	0	0	0	2	3	0	0	1	0	0	0	0	0	4
	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

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TABLE 3 - P0 GENERATION

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

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

DOSE GROUP	I	II	III	IV
DOSE LEVEL	0	2000	10000	20000
DAY 0 to 25				
Normal				
WITHIN NORMAL LIMITS	79/21	86/24	81/22	71/18
TERMINAL SACRIFICE	1/ 1	1/ 1	0/ 0	1/ 1
Dermal-General				
ALOPECIA - EXTREMITIES/SNOUT	8/ 2	12/ 4	14/ 4	16/ 4
ALOPECIA - GENERAL	0/ 0	4/ 1	0/ 0	4/ 1
Ocular				
LACRIMATION - UNILATERAL	2/ 1	0/ 0	0/ 0	0/ 0
CHROMODACRYORRHEA - UNILATERAL	2/ 1	0/ 0	0/ 0	2/ 1
Oral/Buccal				
INCISORS MALOCCLUDED	7/ 3	0/ 0	0/ 0	4/ 1
INCISORS BROKEN/MISSING	9/ 4	2/ 1	2/ 2	3/ 2

[a]INCLUDES ALL ANIMALS THAT WERE CONSIDERED PREGNANT BASED ON THE PRESENCE OF A COPULATORY PLUG IN THE VAGINA AND/OR MICROSCOPIC OBSERVATION OF SPERM IN THE VAGINAL SMEAR.

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TABLE 4 P0 GENERATION

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

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

DOSE GROUP	I	II	III	IV
DOSE LEVEL	0	2000	10000	20000
DAY 1 to 28				
Normal				
WITHIN NORMAL LIMITS	114/19	121/21	129/23	126/21
TERMINAL SACRIFICE	25/25	25/25	25/25	25/25
Gen. Appearance				
SWOLLEN PAW(S)	0/ 0	1/ 1	0/ 0	0/ 0
Dermal-General				
ALOPECIA - EXTREMITIES/SNOUT	12/ 2	22/ 4	18/ 4	24/ 4
ALOPECIA - GENERAL	0/ 0	8/ 2	0/ 0	12/ 2
Oral/Buccal				
INCISORS MALOCCLUDED	17/ 3	0/ 0	3/ 1	0/ 0
INCISORS BROKEN/MISSING	12/ 2	0/ 0	3/ 1	0/ 0
Palpable masses				
MASS(ES)	0/ 0	0/ 0	4/ 1	0/ 0

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TABLE 5 P0 GENERATION

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

MALES — MEAN BODY WEIGHT VALUES (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
DAY -7	MEAN	125	125	125	125
	S.D.	13.5	12.6	12.5	12.9
	N	26	26	26	26
DAY 0	MEAN	200	200	195	198
	S.D.	15.4	17.2	14.4	16.1
	N	26	26	26	26
DAY 7	MEAN	257	253	250	248
	S.D.	17.7	20.3	15.2	18.9
	N	26	26	26	26
DAY 14	MEAN	307	303	297	295
	S.D.	20.5	22.8	22.3	21.6
	N	26	26	26	26
DAY 21	MEAN	351	344	337	333*
	S.D.	21.4	25.0	22.8	24.3
	N	26	26	26	26
DAY 28	MEAN	381	374	365	359*
	S.D.	23.7	27.5	30.0	25.8
	N	26	26	26	26
DAY 35	MEAN	419	408	401	396*
	S.D.	25.0	30.3	34.3	28.0
	N	26	26	26	26
DAY 42	MEAN	440	428	417*	413**
	S.D.	25.7	35.2	32.6	28.9
	N	26	26	26	26
DAY 49	MEAN	460	452	440	433*
	S.D.	27.6	34.5	36.8	31.6
	N	26	26	26	26

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

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TABLE 5 P0 GENERATION

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

MALES — MEAN BODY WEIGHT VALUES (GRAMS)

	DOSE GROUP	I	II	III	IV
	DOSE LEVEL	0	2000	10000	20000
DAY 56	MEAN	478	470	459	449*
	S.D.	32.2	37.9	36.9	33.3
	N	26	26	26	26
DAY 63	MEAN	497	491	478	470*
	S.D.	33.1	39.1	40.1	34.0
	N	26	26	26	26
DAY 69	MEAN	510	501	492	483
	S.D.	35.5	43.8	42.7	34.1
	N	26	26	26	26

Statistical key: * = $p<0.05$

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TABLE 5 P0 GENERATION

GASOLINE ETHANOL 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	0	2000	10000	20000
DAY -7	MEAN	92	93	93	93
	S.D.	12.2	13.0	13.3	12.5
	N	26	26	26	26
DAY 0	MEAN	144	145	138	143
	S.D.	13.6	13.4	15.1	13.9
	N	26	26	26	26
DAY 7	MEAN	171	169	168	165
	S.D.	14.2	15.7	15.5	14.1
	N	26	26	26	26
DAY 14	MEAN	196	193	192	187
	S.D.	16.0	15.8	18.8	16.2
	N	26	26	26	26
DAY 21	MEAN	219	217	213	212
	S.D.	18.0	16.6	18.6	15.4
	N	26	26	26	26
DAY 28	MEAN	237	234	231	225
	S.D.	19.9	15.3	20.0	18.5
	N	26	26	26	26
DAY 35	MEAN	253	253	249	243
	S.D.	19.6	18.7	20.5	22.0
	N	26	26	26	26
DAY 42	MEAN	262	258	253	248
	S.D.	22.0	17.0	20.5	22.1
	N	26	26	26	26
DAY 49	MEAN	271	268	261	255*
	S.D.	24.2	17.9	22.2	20.7
	N	26	26	26	26

Statistical key: * = p<0.05

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TABLE 5 P0 GENERATION

GASOLINE ETHANOL 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	0	2000	10000	20000
DAY 56	MEAN	278	273	269	259**
	S.D.	23.9	17.9	22.8	23.9
	N	26	26	26	26
DAY 63	MEAN	286	282	277	269
	S.D.	25.0	22.6	24.1	23.7
	N	26	26	26	26
DAY 69	MEAN	287	287	281	274
	S.D.	25.6	23.0	26.1	25.1
	N	26	26	26	26

Statistical key: ** = p<0.01

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TABLE 6 P0 GENERATION

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

MALES — MEAN BODY WEIGHT GAIN (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
DAY -7 TO 0	MEAN	76	75	70**	73
	S.D.	4.9	6.1	5.4	6.2
	N	26	26	26	26
DAY 0 TO 7	MEAN	56	53	55	51**
	S.D.	5.9	5.8	5.9	6.3
	N	26	26	26	26
DAY 7 TO 14	MEAN	50	50	47	46
	S.D.	5.2	5.7	19.0	6.6
	N	26	26	26	26
DAY 14 TO 21	MEAN	44	41	40	38**
	S.D.	7.7	6.4	6.5	6.8
	N	26	26	26	26
DAY 21 TO 28	MEAN	31	30	29	27
	S.D.	6.7	7.6	10.9	7.0
	N	26	26	26	26
DAY 28 TO 35	MEAN	37	34	36	37
	S.D.	6.6	6.3	10.0	7.9
	N	26	26	26	26
DAY 35 TO 42	MEAN	21	19	16	17
	S.D.	6.8	14.4	12.6	8.3
	N	26	26	26	26

Statistical key: ** = p<0.01

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TABLE 6 P0 GENERATION

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

MALES — MEAN BODY WEIGHT GAIN (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
DAY 42 TO 49	MEAN	20	24	23	20
	S.D.	7.8	9.2	9.4	6.0
	N	26	26	26	26
DAY 49 TO 56	MEAN	18	18	19	17
	S.D.	7.0	7.1	5.8	5.0
	N	26	26	26	26
DAY 56 TO 63	MEAN	19	21	19	21
	S.D.	6.3	6.0	6.5	5.0
	N	26	26	26	26
DAY 63 TO 69	MEAN	13	11	14	13
	S.D.	5.4	6.1	4.7	5.5
	N	26	26	26	26
DAY 69 TO 77	MEAN	10	12	9	10
	S.D.	6.4	6.7	9.2	6.3
	N	26	26	26	26
DAY 77 TO 84	MEAN	12	14	11	14
	S.D.	6.2	6.9	9.4	6.5
	N	26	26	26	26
DAY 84 TO 91	MEAN	11	10	10	11
	S.D.	5.1	7.3	9.4	7.2
	N	26	26	26	26

No statistically significant differences

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TABLE 6 P0 GENERATION

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

MALES — MEAN BODY WEIGHT GAIN (GRAMS)

	DOSE GROUP	I	II	III	IV
	DOSE LEVEL	0	2000	10000	20000
DAY 91 TO 98	MEAN	7	5	6	6
	S.D.	4.1	5.2	6.2	6.6
	N	26	26	26	26
DAY 98 TO 105	MEAN	11	11	9	8
	S.D.	7.6	6.1	7.2	8.0
	N	26	26	26	26
DAY 0 TO 69	MEAN	309	301	297	285
	S.D.	35.2	40.6	39.9	32.6
	N	26	26	26	26
DAY 69 TO 84	MEAN	22	26	20	23
	S.D.	8.8	11.1	16.8	9.4
	N	26	26	26	26
DAY 84 TO 105	MEAN	29	25	25	26
	S.D.	10.1	8.8	13.3	11.5
	N	26	26	26	26
DAY 0 TO 105	MEAN	361	352	342	334
	S.D.	37.6	46.8	46.2	40.6
	N	26	26	26	26

No statistically significant differences

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TABLE 6 P0 GENERATION

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

FEMALES

MEAN BODY WEIGHT GAIN (GRAMS)

	DOSE GROUP	I	II	III	IV
	DOSE LEVEL	0	2000	10000	20000
DAY -7 TO 0	MEAN	51	52	45**	50
	S.D.	6.3	5.3	6.1	5.0
	N	26	26	26	26
DAY 0 TO 7	MEAN	27	24	30	22**
	S.D.	5.7	7.4	4.7	5.2
	N	26	26	26	26
DAY 7 TO 14	MEAN	25	24	24	23
	S.D.	5.2	7.2	6.5	15.5
	N	26	26	26	26
DAY 14 TO 21	MEAN	23	24	21	24
	S.D.	5.7	6.5	6.6	7.1
	N	26	26	26	26
DAY 21 TO 28	MEAN	18	17	18	14
	S.D.	6.7	4.6	8.4	8.6
	N	26	26	26	26
DAY 28 TO 35	MEAN	16	19	18	17
	S.D.	8.1	8.3	9.0	8.7
	N	26	26	26	26
DAY 35 TO 42	MEAN	8	5	4	5
	S.D.	5.8	7.9	8.5	6.1
	N	26	26	26	26

Statistical key: ** = p<0.01

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TABLE 6 P0 GENERATION

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

FEMALES MEAN BODY WEIGHT GAIN (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
DAY 42 TO 49	MEAN	10	10	8	8
	S.D.	4.2	6.0	8.0	6.5
	N	26	26	26	26
DAY 49 TO 56	MEAN	6	5	8	3
	S.D.	5.2	8.4	7.3	6.4
	N	26	26	26	26
DAY 56 TO 63	MEAN	9	9	8	10
	S.D.	7.3	11.5	5.4	8.1
	N	26	26	26	26
DAY 63 TO 69	MEAN	1	5	4	5
	S.D.	6.6	7.7	6.0	7.6
	N	26	26	26	26
DAY 0 TO 69	MEAN	144	142	143	131
	S.D.	18.7	16.9	17.5	23.8
	N	26	26	26	26

No statistically significant differences

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TABLE 7 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
DAY 0	MEAN	285	283	276	276
	S.D.	24.0	22.3	29.4	23.9
	N	24	25	24	22
DAY 4	MEAN	305	305	298	297
	S.D.	26.3	24.5	27.8	24.7
	N	24	25	24	22
DAY 7	MEAN	313	315	308	307
	S.D.	28.4	25.4	27.9	26.0
	N	24	25	24	22
DAY 14	MEAN	346	346	339	339
	S.D.	29.7	27.1	30.5	26.5
	N	24	25	24	22
DAY 20	MEAN	409	410	402	405
	S.D.	30.2	34.0	37.6	26.8
	N	24	25	24	22

No statistically significant differences

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TABLE 8 P0 GENERATION

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

SUMMARY OF GESTATION BODY WEIGHT GAIN (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
DAYS 0 TO 4	MEAN	20	22	22	21
	S.D.	5.5	7.3	6.2	5.7
	N	24	25	24	22
DAYS 4 TO 7	MEAN	9	10	10	10
	S.D.	4.2	4.6	4.6	3.0
	N	24	25	24	22
DAYS 7 TO 14	MEAN	32	32	31	32
	S.D.	6.0	5.1	5.9	5.1
	N	24	25	24	22
DAYS 14 TO 20	MEAN	63	64	62	66
	S.D.	10.9	11.9	17.1	14.2
	N	24	25	24	22
DAYS 0 TO 20	MEAN	124	127	126	129
	S.D.	13.9	18.0	20.2	18.6
	N	24	25	24	22

No statistically significant differences

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TABLE 9 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
DAY 1	MEAN	313	310	308	303
	S.D.	27.4	24.9	26.7	26.7
	N	25	25	25	25
DAY 4	MEAN	330	328	322	315
	S.D.	28.3	27.7	29.3	26.6
	N	25	25	25	25
DAY 7	MEAN	343	339	333	328
	S.D.	26.2	26.6	26.4	24.5
	N	25	25	25	25
DAY 14	MEAN	358	360	347	341
	S.D.	23.9	30.0	26.6	30.5
	N	25	25	25	25
DAY 21	MEAN	355	354	343	344
	S.D.	29.7	30.4	24.5	23.4
	N	25	25	25	25
DAY 28	MEAN	323	323	312	313
	S.D.	27.8	25.1	28.2	22.3
	N	25	25	25	25

No statistically significant differences

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TABLE 10 P0 GENERATION

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

SUMMARY OF MATERNAL LACTATION BODY WEIGHT GAIN (GRAMS)

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
DAYS 1 TO 4	MEAN	17	18	14	12
	S.D.	8.2	12.6	8.7	7.8
	N	25	25	25	25
DAYS 4 TO 7	MEAN	13	12	10	13
	S.D.	7.2	8.6	7.6	8.8
	N	25	25	25	25
DAYS 7 TO 14	MEAN	15	20	15	12
	S.D.	14.5	10.3	14.0	19.9
	N	25	25	25	25
DAYS 14 TO 21	MEAN	-3	-5	-4	3
	S.D.	16.1	10.1	22.8	26.6
	N	25	25	25	25
DAYS 21 TO 28	MEAN	-32	-31	-31	-30
	S.D.	18.4	10.8	18.2	17.8
	N	25	25	25	25
DAYS 1 TO 28	MEAN	10	13	5	10
	S.D.	15.6	14.5	11.2	17.2
	N	25	25	25	25

No statistically significant differences

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TABLE 11 P0 GENERATION

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

MALES — MEAN FEED CONSUMPTION (GRAMS/KG/DAY)

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
DAY 0	MEAN	137	139	142	139
	S.D.	7.8	9.7	7.7	6.6
	N	26	26	26	26
DAY 7	MEAN	111	111	107	107
	S.D.	6.6	5.4	12.7	5.1
	N	26	26	26	26
DAY 14	MEAN	96	94	93	91
	S.D.	6.0	4.7	15.7	4.2
	N	26	26	26	26
DAY 21	MEAN	86	84	86	84
	S.D.	6.7	3.8	4.5	4.6
	N	26	26	26	26
DAY 28	MEAN	74	72	73	71
	S.D.	5.0	3.5	5.6	3.6
	N	26	26	26	26
DAY 35	MEAN	70	67	68	67
	S.D.	4.9	3.0	3.7	3.0
	N	26	26	26	26
DAY 42	MEAN	65	63	64	63
	S.D.	4.0	8.9	4.1	2.6
	N	26	26	26	26
DAY 49	MEAN	62	62	61	60
	S.D.	3.7	5.3	1.8	2.4
	N	26	26	26	26
DAY 56	MEAN	59	59	58	58
	S.D.	3.2	3.4	2.4	2.6
	N	26	26	26	26

No statistically significant differences

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TABLE 11 P0 GENERATION

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

MALES

MEAN FEED CONSUMPTION (GRAMS/KG/DAY)

	DOSE GROUP DOSE LEVEL	I 0	II 2000	III 10000	IV 20000
DAY 63	MEAN	58	57	57	57
	S.D.	2.9	3.1	2.3	2.3
	N	26	26	26	26
DAY 69	MEAN	55	54	54	55
	S.D.	2.7	2.4	2.3	2.7
	N	26	25	26	26
DAY 91	MEAN	51	51	50	50
	S.D.	2.5	2.9	2.8	2.9
	N	26	26	25	26
DAY 98	MEAN	47	48	47	47
	S.D.	2.1	3.3	2.1	1.9
	N	24	26	26	26
DAY 105	MEAN	46	47	47	48
	S.D.	2.5	2.7	2.4	2.4
	N	26	26	26	25

No statistically significant differences

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TABLE 11 P0 GENERATION

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

FEMALES MEAN FEED CONSUMPTION (GRAMS/KG/DAY)

	DOSE GROUP	I	II	III	IV
	DOSE LEVEL	0	2000	10000	20000
DAY 0	MEAN	145	145	153*	148
	S.D.	8.6	9.5	16.3	9.3
	N	26	26	26	25
DAY 7	MEAN	110	110	115	110
	S.D.	7.1	9.5	15.9	8.3
	N	26	26	24	26
DAY 14	MEAN	101	103	100	99
	S.D.	5.2	7.4	6.2	7.1
	N	26	25	24	26
DAY 21	MEAN	95	97	95	97
	S.D.	4.0	9.0	6.4	8.2
	N	26	26	26	26
DAY 28	MEAN	88	87	87	85
	S.D.	4.1	5.8	5.4	3.8
	N	26	26	26	26
DAY 35	MEAN	81	80	81	78*
	S.D.	3.5	4.5	7.8	4.6
	N	26	26	26	26
DAY 42	MEAN	78	76	75	77
	S.D.	4.3	4.8	4.8	8.0
	N	26	26	24	26
DAY 49	MEAN	75	73	73	72
	S.D.	3.3	4.9	5.0	3.6
	N	26	26	26	26
DAY 56	MEAN	70	70	71	68
	S.D.	3.8	5.3	10.3	3.8
	N	26	26	26	26

Statistical key: * = $p<0.05$

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TABLE 11 P0 GENERATION

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

FEMALES MEAN FEED CONSUMPTION (GRAMS/KG/DAY)

	DOSE GROUP	I	II	III	IV
	DOSE LEVEL	0	2000	10000	20000
DAY 63	MEAN	71	68	69	69
	S.D.	4.3	4.1	5.9	4.2
	N	26	26	26	26
DAY 69	MEAN	64	65	64	66
	S.D.	4.0	4.3	3.7	4.4
	N	26	25	22	25
DAY 91	MEAN	70		64	64
	S.D.	0.0		0.7	2.6
	N	1		2	3
DAY 98	MEAN	71		62	
	S.D.	0.0		0.0	
	N	1		1	
DAY 105	MEAN			59	
	S.D.			0.0	
	N			1	

No statistically significant differences

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TABLE 12 P0 GENERATION

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

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

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
DAYS 0 TO 4	MEAN	76	73	72	75
	S.D.	11.7	6.6	5.7	7.5
	N	24	25	23	22
DAYS 4 TO 7	MEAN	71	73	75	74
	S.D.	12.8	6.1	6.6	5.8
	N	24	25	24	22
DAYS 7 TO 14	MEAN	70	70	72	71
	S.D.	5.5	4.0	5.3	4.7
	N	24	25	24	22
DAYS 14 TO 20	MEAN	64	64	64	63
	S.D.	3.8	3.3	4.4	4.4
	N	24	25	24	22
DAYS 0 TO 20	MEAN	70	70	71	71
	S.D.	5.7	4.1	4.8	4.8
	N	24	25	24	22

No statistically significant differences

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TABLE 13 P0 GENERATION

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

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

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
DAYS 1 TO 4	MEAN	99	100	96	104
	S.D.	11.5	11.7	16.4	15.3
	N	25	25	25	25
DAYS 4 TO 7	MEAN	118	116	111	114
	S.D.	12.3	9.0	14.7	8.9
	N	25	25	24	24
DAYS 7 TO 14	MEAN	136	141	136	141
	S.D.	27.9	12.3	22.3	15.2
	N	19	17	23	23
DAYS 14 TO 21	MEAN	183	181	181	185
	S.D.	13.3	14.5	23.6	15.8
	N	24	24	24	22
DAYS 21 TO 28	MEAN	333	324	325	321
	S.D.	46.6	52.1	64.3	32.1
	N	19	22	15	17
DAYS 1 TO 28	MEAN	165	170	155	160
	S.D.	22.9	19.3	33.3	23.0
	N	25	25	25	25

No statistically significant differences

	Summary of Estrous Stages Preface	Table 14

Notes:

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

	Summary of Estrous Stages P_0 Generation	Table 14

Group		1	2	3	4
Exposure Level (mg/m^3)		0	2000	10000	20000
Females Examined	N	26	26	26	26
Pre-Mating					
Cycle Length (days)	Mean	4.4	4.3	4.4	4.3
	S.D.	0.6	0.4	0.7	0.4
	N	25	26	26	26
Number With Irregular Cycles	N	0	0	0	0
Mating					
Number Passing ≥ 1 Estrus Without Mating	N	1	0	1	2
Number of Animals Pregnant	N	25	25	25	25

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TABLE 15 P0 GENERATION

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

SUMMARY OF COHABITATION DATA

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
Females paired with males	N	26	26	26	26
Total number mated	N	26	26	25	26
female mating index	%	100.0	100.0	96.2	100.0
pregnant	N	25	25	25	25
female fertility index	%	96.2	96.2	100.0	96.2
pregnancy index	%	96.2	96.2	100.0	96.2
Males placed with females	N	26	26	26	26
Total number mated	N	26	26	25	26
male mating index	%	100.0	100.0	96.2	100.0
with females pregnant	N	25	25	25	25
male fertility index	%	96.2	96.2	100.0	96.2
Females with defined day 0 of Gestation[a]	N	25	26	24	23
No. of days until Mating	MEAN	2.6	3.0	3.2	2.8
	S.D.	0.99	1.41	2.62	1.53
Day 1 to 4	N	24	24	19	21
	%	96.0	92.3	79.2	91.3
Day 5 to 8	N	1	2	4	2
	%	4.0	7.7	16.7	8.7
Day 9 to 14	N	0	0	1	0
	%	0.0	0.0	4.2	0.0

No statistically significant differences

[a]Includes all females with evidence of insemination (microscopic observation of sperm in the vaginal smear and/or a copulation plug in the vagina) regardless of pregnancy status.

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TABLE 16 P0 GENERATION

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

SUMMARY OF DELIVERY AND LITTER DATA

DOSE GROUP DOSE LEVEL		I 0	II 2000	III 10000	IV 20000
Females on Study	N	26	26	26	26
Females Mated	N	26	26	25	26
Mating Index	%	100.0	100.0	96.2	100.0
Females Pregnant	N	25	25	25	25
Female Fertility Index	%	96.2	96.2	100.0	96.2
Females with Liveborn	N	25	25	25	25
Gestation Index	%	100.0	100.0	100.0	100.0
Females Completing Delivery	N	25	25	25	25
	%	100.0	100.0	100.0	100.0
with Stillborn Pups	N	5	5	1	3
	%	20.0	20.0	4.0	12.0
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	0	0	0	0
	%	0.0	0.0	0.0	0.0
day 21	N	0	0	0	0
	%	0.0	0.0	0.0	0.0
Duration of Gestation	MEAN	21.9	22.0	22.0	21.9
	S.D.	0.28	0.41	0.36	0.35
	N	24	25	24	22

No statistically significant differences

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TABLE 16 P0 GENERATION

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

SUMMARY OF DELIVERY AND LITTER DATA

DOSE GROUP DOSE LEVEL		I 0	II 2000	III 10000	IV 20000
Litters with Liveborn Pups	N	25	25	25	25
Pups Delivered (total)	N	330	346	335	353
	MEAN	13.2	13.8	13.4	14.1
	S.D.	1.85	2.12	2.33	1.76
Liveborn	N	325	341	334	350
Live Birth Index	%	98.5	98.6	99.7	99.2
Stillborn	N	5	5	1	3
	%	1.5	1.4	0.3	0.8
Culled day 4		75	89	86	94
Liveborn, not culled prior to day 21	N	250	252	248	256
Pups Dying, Missing, and/or Cannibalized					
day 0	N	0	1	0	1
	%	0.0	0.3	0.0	0.3
days 1-4	N	3	3	5	5
	%	0.9	0.9	1.5	1.4
days 5-21	N	0	0	0	2
	%	0.0	0.0	0.0	0.6
days 0-4	N	3	4	5	6
	%	0.9	1.2	1.5	1.7
days 0-21	N	3	4	5	8
	%	0.9	1.2	1.5	2.3
Pups Surviving 4 days	N	322	337	329	344
Viability Index	%	99.1	98.8	98.5	98.3
Pups Surviving 21 days	N	247	248	243	248
Lactation Index	%	100.0	100.0	100.0	99.2

No statistically significant differences

Huntingdon Life Sciences 00-4203

TABLE 16 P0 GENERATION

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

SUMMARY OF DELIVERY AND LITTER DATA

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
Implantation Sites	N	360	374	373	375
per Litter	MEAN	14.4	15.0	14.9	15.0
	S.D.	1.29	2.09	1.29	1.73
Sex Ratio - Male Pups:Total Pups					
day 0	N	161	167	160	177
	%	49.5	49.0	47.9	50.6
day 21	N	121	123	117	124
	%	49.0	49.6	48.1	50.0
Live Pups/Litter					
day 1	MEAN	12.9	13.6	13.2	13.9
	S.D.	1.91	2.06	2.67	1.85
	N	25	25	25	25
day 4 preculling	MEAN	12.9	13.5	13.2	13.8
	S.D.	1.92	2.04	2.69	1.83
	N	25	25	25	25
day 4 postculling	MEAN	9.9	9.9	9.7	10.0
	S.D.	0.60	0.40	1.40	0.00
	N	25	25	25	25
day 7	MEAN	9.9	9.9	9.7	10.0
	S.D.	0.60	0.40	1.40	0.20
	N	25	25	25	25
day 14	MEAN	9.9	9.9	9.7	10.0
	S.D.	0.60	0.40	1.40	0.20
	N	25	25	25	25
day 21	MEAN	9.9	9.9	9.7	9.9
	S.D.	0.60	0.40	1.40	0.40
	N	25	25	25	25
day 28	MEAN	9.9	9.9	9.7	9.9
	S.D.	0.60	0.40	1.40	0.40
	N	25	25	25	25

No statistically significant differences

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TABLE 16 P0 GENERATION

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

SUMMARY OF DELIVERY AND LITTER DATA

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
Pup Weight/Litter (grams)					
day 1	MEAN	7.3	7.3	7.2	7.0
	S.D.	0.48	0.68	0.65	0.44
	N	25	25	25	25
day 4	MEAN	10.6	10.4	10.3	10.1
	S.D.	0.98	1.05	1.24	0.95
	N	25	25	25	25
day 7	MEAN	14.7	14.5	14.1	13.9
	S.D.	1.50	1.62	1.67	1.39
	N	25	25	25	25
day 14	MEAN	25.6	25.6	24.6	24.1
	S.D.	2.25	2.58	2.55	2.09
	N	25	25	25	25
day 21	MEAN	41.3	42.6	40.9	39.9
	S.D.	3.97	4.91	4.99	4.47
	N	25	25	25	25
day 28	MEAN	76.7	79.0	76.7	75.4
	S.D.	6.16	7.29	7.10	6.37
	N	25	25	25	25

No statistically significant differences

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TABLE 17 - F1 GENERATION

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

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

DOSE GROUP	I	II	III	IV
DOSE LEVEL	0	2000	10000	20000
DAY 0 to 28				
Normal				
WITHIN NORMAL LIMITS	1629/25	1662/25	1631/25	1685/25
Gen. Appearance				
SWOLLEN PAW(S)	0/ 0	1/ 1	0/ 0	1/ 1
Dermal-General				
ALOPECIA - EXTREMITIES/SNOUT	0/ 0	0/ 0	3/ 1	0/ 0
SCABS	0/ 0	6/ 2	0/ 0	0/ 0
LACERATION CERVICAL	1/ 1	0/ 0	0/ 0	0/ 0
LACERATION LEFT LATERAL	1/ 1	0/ 0	0/ 0	0/ 0
LACERATION DORSAL SURFACE	1/ 1	0/ 0	0/ 0	0/ 0
LACERATION LEFT HIND PAW	1/ 1	0/ 0	0/ 0	0/ 0
LACERATION ON SNOUT	0/ 0	0/ 0	1/ 1	0/ 0
Behavior/Activity				
BODY LEANS TO LEFT	0/ 0	0/ 0	0/ 0	1/ 1
Miscellaneous				
TIP OF TAIL MISSING	2/ 1	0/ 0	0/ 0	0/ 0
LEFT HIND PAW MISSING	1/ 1	0/ 0	0/ 0	0/ 0

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TABLE 18 F1 GENERATION

GASOLINE ETHANOL 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			0	2000	10000	20000
day 1	males	MEAN	7.6	7.5	7.4	7.1*
		S.D.	0.52	0.67	0.65	0.55
		N	25	25	25	25
1	females	MEAN	7.1	7.1	7.0	6.8
		S.D.	0.48	0.67	0.67	0.43
		N	25	25	25	25
1	males+females	MEAN	7.3	7.3	7.2	7.0
		S.D.	0.48	0.68	0.65	0.44
		N	25	25	25	25
day 4	males preculling	MEAN	10.9	10.6	10.5	10.2
		S.D.	1.04	1.13	1.22	1.09
		N	25	25	25	25
4	females preculling	MEAN	10.3	10.1	10.1	9.9
		S.D.	0.96	0.98	1.28	0.99
		N	25	25	25	25
4	males+females preculling	MEAN	10.6	10.4	10.3	10.1
		S.D.	0.98	1.05	1.24	0.95
		N	25	25	25	25
day 4	males postculling	MEAN	10.9	10.6	10.5	10.1
		S.D.	1.05	1.13	1.27	1.08
		N	25	25	25	25
4	females postculling	MEAN	10.2	10.1	10.1	9.9
		S.D.	0.98	0.98	1.32	0.96
		N	25	25	25	25
4	males+females postculling	MEAN	10.6	10.4	10.3	10.0
		S.D.	0.98	1.03	1.29	0.94
		N	25	25	25	25

Statistical key: * = $p<0.05$

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TABLE 18 F1 GENERATION

GASOLINE ETHANOL 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			0	2000	10000	20000
day 7	males	MEAN	15.1	14.9	14.4	14.0
		S.D.	1.64	1.73	1.58	1.57
		N	25	25	25	25
7	females	MEAN	14.3	14.1	13.9	13.7
		S.D.	1.42	1.55	1.76	1.46
		N	25	25	25	25
7	males+females	MEAN	14.7	14.5	14.1	13.9
		S.D.	1.50	1.62	1.67	1.39
		N	25	25	25	25
day 14	males	MEAN	26.1	26.1	25.0	24.2*
		S.D.	2.40	2.79	2.54	2.80
		N	25	25	25	25
14	females	MEAN	25.1	25.0	24.3	23.8
		S.D.	2.14	2.44	2.60	2.14
		N	25	25	25	25
14	males+females	MEAN	25.6	25.6	24.6	24.1
		S.D.	2.25	2.58	2.55	2.09
		N	25	25	25	25
day 21	males	MEAN	42.4	43.6	41.5	40.3
		S.D.	4.38	5.47	4.94	4.87
		N	25	25	25	25
21	females	MEAN	40.3	41.6	40.4	39.3
		S.D.	3.88	4.49	5.05	4.46
		N	25	25	25	25
21	males+females	MEAN	41.3	42.6	40.9	39.9
		S.D.	3.97	4.91	4.99	4.47
		N	25	25	25	25

Statistical key: * = $p<0.05$

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TABLE 18 F1 GENERATION

GASOLINE ETHANOL 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			0	2000	10000	20000
day 28	males	MEAN	80.2	82.3	79.6	77.2
		S.D.	7.15	8.39	7.38	8.25
		N	25	25	25	25
28	females	MEAN	73.3	75.9	74.1	72.9
		S.D.	5.67	6.18	7.14	5.85
		N	25	25	25	25
28	males+females	MEAN	76.7	79.0	76.7	75.4
		S.D.	6.16	7.29	7.10	6.37
		N	25	25	25	25

No statistically significant differences

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TABLE 18 F1 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
day 1- 4 males	MEAN	3.3	3.2	3.1	3.1
	S.D.	0.76	0.78	0.77	0.70
	N	25	25	25	25
females	MEAN	3.2	3.0	3.1	3.0
	S.D.	0.66	0.66	0.73	0.73
	N	25	25	25	25
males+females	MEAN	3.2	3.1	3.1	3.1
	S.D.	0.70	0.70	0.73	0.67
	N	25	25	25	25
day 4- 7 males	MEAN	4.2	4.3	3.9	3.9
	S.D.	0.90	0.95	0.78	0.76
	N	25	25	25	25
females	MEAN	4.0	4.0	3.8	3.8
	S.D.	0.79	0.88	0.88	0.75
	N	25	25	25	25
males+females	MEAN	4.1	4.1	3.9	3.9
	S.D.	0.84	0.90	0.82	0.73
	N	25	25	25	25
day 4-21 males	MEAN	31.5	33.0	31.0	30.2
	S.D.	3.52	4.77	4.55	4.10
	N	25	25	25	25
females	MEAN	30.0	31.5	30.3	29.4
	S.D.	3.15	3.88	4.42	3.75
	N	25	25	25	25
males+females	MEAN	30.8	32.2	30.6	29.9
	S.D.	3.21	4.27	4.48	3.83
	N	25	25	25	25

No statistically significant differences

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TABLE 18 F1 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
day 4-28 males	MEAN	69.3	71.7	69.2	67.1
	S.D.	6.37	7.74	6.94	7.42
	N	25	25	25	25
females	MEAN	63.1	65.7	64.0	63.0
	S.D.	5.02	5.65	6.45	5.18
	N	25	25	25	25
males+females	MEAN	66.2	68.7	66.5	65.4
	S.D.	5.49	6.71	6.54	5.74
	N	25	25	25	25
day 7-14 males	MEAN	11.0	11.2	10.6	10.2
	S.D.	1.24	1.51	1.54	1.52
	N	25	25	25	25
females	MEAN	10.8	10.9	10.4	10.2
	S.D.	1.24	1.37	1.39	1.02
	N	25	25	25	25
males+females	MEAN	10.9	11.0	10.5	10.2
	S.D.	1.23	1.42	1.45	1.04
	N	25	25	25	25
day 7-28 males	MEAN	65.1	67.4	65.2	63.2
	S.D.	5.78	7.02	6.41	6.83
	N	25	25	25	25
females	MEAN	59.0	61.7	60.2	59.2
	S.D.	4.56	5.04	5.84	4.62
	N	25	25	25	25
males+females	MEAN	62.0	64.5	62.6	61.5
	S.D.	4.93	6.07	5.95	5.17
	N	25	25	25	25

No statistically significant differences

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TABLE 18 F1 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
day 14-21 males	MEAN	16.2	17.5	16.5	16.1
	S.D.	2.57	3.13	2.93	2.72
	N	25	25	25	25
females	MEAN	15.2	16.6	16.1	15.5
	S.D.	2.37	2.59	2.88	2.57
	N	25	25	25	25
males+females	MEAN	15.7	17.0	16.3	15.8
	S.D.	2.29	2.80	2.89	2.66
	N	25	25	25	25
day 14-28 males	MEAN	54.1	56.2	54.6	53.0
	S.D.	5.11	5.95	5.34	5.57
	N	25	25	25	25
females	MEAN	48.2	50.9	49.8	49.0
	S.D.	4.01	4.20	4.80	3.94
	N	25	25	25	25
males+females	MEAN	51.1	53.5	52.1	51.3
	S.D.	4.26	5.13	4.89	4.43
	N	25	25	25	25
day 21-28 males	MEAN	37.8	38.6	38.2	36.9
	S.D.	3.54	3.40	3.33	4.12
	N	25	25	25	25
females	MEAN	33.0	34.3	33.8	33.6
	S.D.	2.75	2.33	2.79	2.27
	N	25	25	25	25
males+females	MEAN	35.4	36.5	35.9	35.4
	S.D.	3.09	2.86	2.86	2.75
	N	25	25	25	25

No statistically significant differences

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TABLE 19 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
MALES	N	26	26	26	26
GROSS EXAM	N	0	0	1	0
FRACTURED BONE(S)	N	0	0	1	0
	%	0.0	0.0	3.8	0.0
THYMUS	N	1	3	1	1
DISCOLORED FOCUS/FOCI	N	1	1	1	1
	%	3.8	3.8	3.8	3.8
DISCOLORED AREA(S)	N	0	2	0	0
	%	0.0	7.7	0.0	0.0
LUNGS	N	1	4	3	3
DISCOLORED FOCI	N	1	4	3	3
	%	3.8	15.4	11.5	11.5
LIVER	N	0	1	0	0
HERNIATED	N	0	1	0	0
	%	0.0	3.8	0.0	0.0

No statistically significant differences

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TABLE 19 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
MALES	N	26	26	26	26
KIDNEY	N	4	1	3	0
DISCOLORED FOCI	N	1	0	0	0
	%	3.8	0.0	0.0	0.0
CYSTIC KIDNEY	N	2	0	3	0
	%	7.7	0.0	11.5	0.0
DILATED RENAL PELVIS	N	1	1	0	0
	%	3.8	3.8	0.0	0.0
GONADS	N	2	0	1	0
EPIDIDYMIS(IDES) - ABSCESS	N	2	0	0	0
	%	7.7	0.0	0.0	0.0
SMALL TESTE(S)	N	0	0	1	0
	%	0.0	0.0	3.8	0.0
SMALL EPIDIDYMIS(IDES)	N	0	0	1	0
	%	0.0	0.0	3.8	0.0

No statistically significant differences

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TABLE 19 P0 GENERATION

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

SUMMARY OF PARENTAL NECROPSY OBSERVATIONS

DOSE GROUP DOSE LEVEL		I 0	II 2000	III 10000	IV 20000
FEMALES	N	26	26	26	26
LUNGS	N	3	2	7	4
DISCOLORED FOCI	N	3	2	7	4
	%	11.5	7.7	26.9	15.4
LIVER	N	0	1	1	1
ADHESION(S)	N	0	1	0	1
	%	0.0	3.8	0.0	3.8
DISCOLORED	N	0	0	1	0
	%	0.0	0.0	3.8	0.0
KIDNEY	N	1	1	0	4
DILATED RENAL PELVIS	N	0	0	0	3
	%	0.0	0.0	0.0	11.5
IRREGULAR SURFACE	N	1	0	0	0
	%	3.8	0.0	0.0	0.0
ADHESION	N	0	0	0	1
	%	0.0	0.0	0.0	3.8
AGENESIS	N	0	1	0	0
	%	0.0	3.8	0.0	0.0

No statistically significant differences

Huntingdon Life Sciences 00-4203

TABLE 19 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
FEMALES	N	26	26	26	26
ADRENALS	N	0	0	0	1
SMALL	N	0	0	0	1
	%	0.0	0.0	0.0	3.8
UTERUS	N	0	0	0	1
SALEWSKI'S TEST	N	0	0	0	1
	%	0.0	0.0	0.0	3.8

No statistically significant differences

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TABLE 20 F1 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
Litters Evaluated	N	25	25	25	25
Pups Evaluated	N	230	244	236	250
Live	N	225	239	235	247
Stillborn	N	5	5	1	3
GROSS EXAM					
Litter Incidence	N	1	3	1	2
Pup Incidence	N	1	3	1	2
AUTOLYSIS					
Pup Incidence	N	0	3	1	2
	%	0.0	1.2	0.4	0.8
Litter Incidence	N	0	3	1	2
	%	0.0	12.0	4.0	8.0
INTERNAL SEX UNDETERMINED					
Pup Incidence	N	1	0	0	0
	%	0.4	0.0	0.0	0.0
Litter Incidence	N	1	0	0	0
	%	4.0	0.0	0.0	0.0
CANNIBALIZED					
Pup Incidence	N	1	0	0	0
	%	0.4	0.0	0.0	0.0
Litter Incidence	N	1	0	0	0
	%	4.0	0.0	0.0	0.0
THYMUS					
Litter Incidence	N	0	0	1	0
Pup Incidence	N	0	0	1	0

No statistically significant differences

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TABLE 20 F1 GENERATION

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

SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE GROUP DOSE LEVEL		I 0	II 2000	III 10000	IV 20000
Litters Evaluated	N	25	25	25	25
Pups Evaluated	N	230	244	236	250
Live	N	225	239	235	247
Stillborn	N	5	5	1	3
DISCOLORED					
Pup Incidence	N	0	0	1	0
	%	0.0	0.0	0.4	0.0
Litter Incidence	N	0	0	1	0
	%	0.0	0.0	4.0	0.0
LUNGS					
Litter Incidence	N	5	4	1	3
Pup Incidence	N	5	4	1	3
LUNG FLOATATION TEST - FOUND DEAD					
Pup Incidence	N	0	1	0	1
	%	0.0	0.4	0.0	0.4
Litter Incidence	N	0	1	0	1
	%	0.0	4.0	0.0	4.0
LUNG FLOATATION TEST - STILLBORN					
Pup Incidence	N	5	3	1	2
	%	2.2	1.2	0.4	0.8
Litter Incidence	N	5	3	1	2
	%	20.0	12.0	4.0	8.0
LIVER					
Litter Incidence	N	0	0	1	0
Pup Incidence	N	0	0	1	0

No statistically significant differences

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TABLE 20 F1 GENERATION

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

SUMMARY OF PUP NECROPSY OBSERVATIONS

DOSE GROUP DOSE LEVEL		I 0	II 2000	III 10000	IV 20000
Litters Evaluated	N	25	25	25	25
Pups Evaluated	N	230	244	236	250
Live	N	225	239	235	247
Stillborn	N	5	5	1	3
DIAPHRAGMATIC HERNIA					
Pup Incidence	N	0	0	1	0
	%	0.0	0.0	0.4	0.0
Litter Incidence	N	0	0	1	0
	%	0.0	0.0	4.0	0.0
STOMACH					
Litter Incidence	N	5	5	2	5
Pup Incidence	N	5	5	2	5
MILK IN STOMACH					
Pup Incidence	N	0	1	1	2
	%	0.0	0.4	0.4	0.8
Litter Incidence	N	0	1	1	2
	%	0.0	4.0	4.0	8.0
NO MILK IN STOMACH					
Pup Incidence	N	4	4	1	3
	%	1.7	1.6	0.4	1.2
Litter Incidence	N	4	4	1	3
	%	16.0	16.0	4.0	12.0
MILK UNDETERMINED					
Pup Incidence	N	1	0	0	0
	%	0.4	0.0	0.0	0.0
Litter Incidence	N	1	0	0	0
	%	4.0	0.0	0.0	0.0

No statistically significant differences

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TABLE 20 F1 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
Litters Evaluated	N	25	25	25	25
Pups Evaluated	N	230	244	236	250
Live	N	225	239	235	247
Stillborn	N	5	5	1	3
KIDNEY					
Litter Incidence	N	10	4	3	3
Pup Incidence	N	12	4	3	3
DILATED RENAL PELVIS					
Pup Incidence	N	6	2	3	3
	%	2.6	0.8	1.3	1.2
Litter Incidence	N	6	2	3	3
	%	24.0	8.0	12.0	12.0
M CYSTIC KIDNEY					
Pup Incidence	N	6	2	0	0
	%	2.6	0.8	0.0	0.0
Litter Incidence	N	5	2	0	0
	%	20.0	8.0	0.0	0.0
GONADS					
Litter Incidence	N	1	0	0	0
Pup Incidence	N	1	0	0	0
M UNDESCENDED TESTE(S)					
Pup Incidence	N	1	0	0	0
	%	0.4	0.0	0.0	0.0
Litter Incidence	N	1	0	0	0
	%	4.0	0.0	0.0	0.0

No statistically significant differences

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TABLE 20 F1 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
Litters Evaluated	N	25	25	25	25
Pups Evaluated	N	230	244	236	250
Live	N	225	239	235	247
Stillborn	N	5	5	1	3
ABDOMINAL CAVITY					
Litter Incidence	N	1	0	0	1
Pup Incidence	N	1	0	0	1
FLUID FILLED					
Pup Incidence	N	1	0	0	0
	%	0.4	0.0	0.0	0.0
Litter Incidence	N	1	0	0	0
	%	4.0	0.0	0.0	0.0
DIAPHRAGMATIC HERNIA					
Pup Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	0.4
Litter Incidence	N	0	0	0	1
	%	0.0	0.0	0.0	4.0
SKIN					
Litter Incidence	N	1	1	0	0
Pup Incidence	N	1	1	0	0
DISCOLORED AREA(S)					
Pup Incidence	N	1	0	0	0
	%	0.4	0.0	0.0	0.0
Litter Incidence	N	1	0	0	0
	%	4.0	0.0	0.0	0.0

No statistically significant differences

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TABLE 20 F1 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
Litters Evaluated	N	25	25	25	25
Pups Evaluated	N	230	244	236	250
Live	N	225	239	235	247
Stillborn	N	5	5	1	3
V EDEMATOUS					
Pup Incidence	N	1	0	0	0
	%	0.4	0.0	0.0	0.0
Litter Incidence	N	1	0	0	0
	%	4.0	0.0	0.0	0.0
BLOOD CLOT					
Pup Incidence	N	0	1	0	0
	%	0.0	0.4	0.0	0.0
Litter Incidence	N	0	1	0	0
	%	0.0	4.0	0.0	0.0

No statistically significant differences

	Mean Parental Organ Weights Preface	Table 21

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Key to Abbreviations:

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

Corresponding exposure levels for each group were as follows:

Group I - 0 mg/m^3
Group II - 2000 mg/m^3
Group III - 10000 mg/m^3
Group IV - 20000 mg/m^3

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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	0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	566	556	542	539
	S.D.	37.1	50.2	50.0	42.1
	N	26	26	26	26
EPIDIDYMIS LEFT g	MEAN	0.7518	0.7597	0.7307	0.7391
	S.D.	.08594	.07994	.06263	.07024
	N	26	26	26	26
EPIDIDYMIS RIGHT g	MEAN	0.7451	0.7544	0.7087	0.7289
	S.D.	.09278	.08157	.12148	.07510
	N	26	26	26	26
EPIDIDYMIDES g	MEAN	1.4565	1.4671	1.3901	1.4201
	S.D.	.14071	.14399	.14526	.13003
	N	26	26	26	26
PROSTATE g	MEAN	1.1881	1.3989*	1.3407	1.3738*
	S.D.	.17906	.30636	.25768	.31761
	N	26	26	26	26
SEM.VES & CO.GL. g	MEAN	1.9311	2.2653	2.0777	2.1254
	S.D.	.31567	.57222	.41602	.51179
	N	26	26	26	26
TESTIS - RIGHT g	MEAN	1.7419	1.7483	1.6787	1.7349
	S.D.	.14495	.17160	.31196	.14883
	N	26	26	26	26
TESTIS - LEFT g	MEAN	1.7615	1.7695	1.7311	1.7487
	S.D.	.17279	.18620	.14456	.17320
	N	26	26	26	26

Statistical key: * = p<0.05

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
TESTES g	MEAN	3.4814	3.4570	3.3656	3.4431
	S.D.	.30753	.34144	.39253	.31177
	N	26	26	26	26
ADRENALS g	MEAN	0.0626	0.0688	0.0623	0.0651
	S.D.	.01169	.00999	.00833	.00886
	N	25	25	26	26
BRAIN g	MEAN	2.2952	2.3180	2.3085	2.2740
	S.D.	.09377	.12433	.11879	.14145
	N	26	26	26	26
KIDNEYS g	MEAN	4.2312	4.6271*	4.8226**	4.9171**
	S.D.	.35492	.47842	.62674	.53784
	N	26	26	26	26
LIVER g	MEAN	20.573	20.260	20.450	20.822
	S.D.	1.7143	2.7008	2.5957	1.9218
	N	26	26	26	26
LUNGS g	MEAN	1.9929	2.0622	1.9465	1.9580
	S.D.	.19531	.23100	.17599	.23294
	N	26	26	26	26
PITUITARY g	MEAN	0.0142	0.0144	0.0133	0.0135
	S.D.	.00153	.00274	.00280	.00219
	N	26	26	26	26
SPLEEN g	MEAN	0.8850	0.9158	0.8659	0.8405
	S.D.	.13286	.12245	.13968	.11763
	N	26	26	26	26

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

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	323	323	312	313
	S.D.	27.8	25.1	28.2	22.3
	N	25	25	25	25
ADRENALS g	MEAN	0.0812	0.0831	0.0771	0.0821
	S.D.	.01037	.00992	.01124	.01413
	N	25	25	25	25
BRAIN g	MEAN	2.0058	2.0238	2.0197	2.0424
	S.D.	.06977	.09478	.09852	.10784
	N	25	25	25	25
KIDNEYS g	MEAN	2.7507	2.7298	2.8094	2.8342
	S.D.	.24747	.28786	.48098	.28225
	N	25	25	25	25
LIVER g	MEAN	15.339	15.054	14.719	15.418
	S.D.	1.7632	1.7553	2.3367	1.9375
	N	25	25	25	25
LUNGS g	MEAN	1.6068	1.6021	1.5935	1.6004
	S.D.	.14990	.13239	.18522	.21573
	N	25	25	25	25
PITUITARY g	MEAN	0.0152	0.0148	0.0148	0.0158
	S.D.	.00298	.00248	.00173	.00275
	N	25	25	25	25
SPLEEN g	MEAN	0.6455	0.6596	0.6931	0.6530
	S.D.	.10849	.08533	.15276	.10761
	N	25	25	25	25

No statistically significant differences

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
OVARY LEFT g	MEAN	0.0586	0.0568	0.0611	0.0605
	S.D.	.01396	.01104	.01909	.01132
	N	25	25	25	25
OVARY RIGHT g	MEAN	0.0554	0.0567	0.0581	0.0564
	S.D.	.01096	.00826	.01783	.01006
	N	25	25	25	25
OVARIES g	MEAN	0.1133	0.1125	0.1136	0.1147
	S.D.	.02069	.01301	.02207	.01728
	N	25	25	25	25
UTERUS/OVIDUCTS g	MEAN	0.7119	0.6767	0.7261	0.7295
	S.D.	.18861	.15406	.25385	.22747
	N	25	25	25	25

No statistically significant differences

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	566	556	542	539
	S.D.	37.1	50.2	50.0	42.1
	N	26	26	26	26
EPIDIDYMIS LEFT Ratio	MEAN	0.0013	0.0014	0.0014	0.0014
	S.D.	.00018	.00015	.00017	.00015
	N	26	26	26	26
EPIDIDYMIS RIGHT Ratio	MEAN	0.0013	0.0014	0.0013	0.0014
	S.D.	.00019	.00017	.00024	.00017
	N	26	26	26	26
EPIDIDYMIDES Ratio	MEAN	0.0026	0.0027	0.0026	0.0026
	S.D.	.00032	.00028	.00035	.00029
	N	26	26	26	26
PROSTATE Ratio	MEAN	0.0021	0.0025*	0.0025*	0.0026**
	S.D.	.00038	.00058	.00047	.00059
	N	26	26	26	26
SEM.VES & CO.GL. Ratio	MEAN	0.0034	0.0041	0.0039	0.0040
	S.D.	.00061	.00109	.00089	.00101
	N	26	26	26	26
TESTIS - RIGHT Ratio	MEAN	0.0031	0.0032	0.0031	0.0032
	S.D.	.00028	.00036	.00065	.00034
	N	26	26	26	26
TESTIS - LEFT Ratio	MEAN	0.0031	0.0032	0.0032	0.0033
	S.D.	.00034	.00039	.00039	.00035
	N	26	26	26	26

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

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
TESTES Ratio	MEAN	0.0062	0.0063	0.0063	0.0064
	S.D.	.00061	.00071	.00096	.00067
	N	26	26	26	26
ADRENALS Ratio	MEAN	0.0001	0.0001	0.0001	0.0001
	S.D.	.00002	.00002	.00002	.00002
	N	25	25	26	26
BRAIN Ratio	MEAN	0.0041	0.0042	0.0043	0.0042
	S.D.	.00031	.00042	.00036	.00039
	N	26	26	26	26
KIDNEYS Ratio	MEAN	0.0075	0.0083**	0.0089**	0.0091**
	S.D.	.00056	.00078	.00119	.00079
	N	26	26	26	26
LIVER Ratio	MEAN	0.0364	0.0364	0.0376	0.0386**
	S.D.	.00185	.00294	.00238	.00205
	N	26	26	26	26
LUNGS Ratio	MEAN	0.0035	0.0037	0.0036	0.0036
	S.D.	.00035	.00031	.00036	.00038
	N	26	26	26	26
PITUITARY Ratio	MEAN	0.0000	0.0000	0.0000	0.0000
	S.D.	.00000	.00000	.00001	.00000
	N	26	26	26	26
SPLEEN Ratio	MEAN	0.0016	0.0016	0.0016	0.0016
	S.D.	.00022	.00017	.00025	.00021
	N	26	26	26	26

Statistical key: ** = p<0.01

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
FINAL BODY WEIGHT g	MEAN	323	323	312	313
	S.D.	27.8	25.1	28.2	22.3
	N	25	25	25	25
ADRENALS Ratio	MEAN	0.0003	0.0003	0.0002	0.0003
	S.D.	.00003	.00004	.00003	.00004
	N	25	25	25	25
BRAIN Ratio	MEAN	0.0062	0.0063	0.0065	0.0065
	S.D.	.00045	.00039	.00061	.00048
	N	25	25	25	25
KIDNEYS Ratio	MEAN	0.0085	0.0085	0.0090	0.0091
	S.D.	.00058	.00072	.00102	.00086
	N	25	25	25	25
LIVER Ratio	MEAN	0.0474	0.0466	0.0470	0.0492
	S.D.	.00356	.00393	.00441	.00478
	N	25	25	25	25
LUNGS Ratio	MEAN	0.0050	0.0050	0.0051	0.0051
	S.D.	.00031	.00028	.00046	.00055
	N	25	25	25	25
PITUITARY Ratio	MEAN	0.0000	0.0000	0.0000	0.0001
	S.D.	.00001	.00001	.00001	.00001
	N	25	25	25	25
SPLEEN Ratio	MEAN	0.0020	0.0021	0.0022	0.0021
	S.D.	.00030	.00028	.00043	.00030
	N	25	25	25	25

No statistically significant differences

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
OVARY LEFT Ratio	MEAN	0.0002	0.0002	0.0002	0.0002
	S.D.	.00004	.00003	.00005	.00003
	N	25	25	25	25
OVARY RIGHT Ratio	MEAN	0.0002	0.0002	0.0002	0.0002
	S.D.	.00003	.00003	.00005	.00003
	N	25	25	25	25
OVARIES Ratio	MEAN	0.0004	0.0003	0.0004	0.0004
	S.D.	.00006	.00004	.00007	.00005
	N	25	25	25	25
UTERUS/OVIDUCTS Ratio	MEAN	0.0022	0.0021	0.0024	0.0024
	S.D.	.00061	.00049	.00090	.00082
	N	25	25	25	25

No statistically significant differences

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
EPIDIDYMIS LEFT Ratio	MEAN	0.3274	0.3280	0.3168	0.3254
	S.D.	.03274	.03244	.02515	.02886
	N	26	26	26	26
EPIDIDYMIS RIGHT Ratio	MEAN	0.3245	0.3259	0.3077	0.3211
	S.D.	.03687	.03491	.05205	.03272
	N	26	26	26	26
EPIDIDYMIDES Ratio	MEAN	0.6344	0.6340	0.6034	0.6255
	S.D.	.05352	.06371	.06621	.05567
	N	26	26	26	26
PROSTATE Ratio	MEAN	0.5183	0.6028*	0.5787	0.6029*
	S.D.	.07960	.12526	.09602	.12523
	N	26	26	26	26
SEM.VES & CO.GL. Ratio	MEAN	0.8421	0.9774	0.9015	0.9382
	S.D.	.13935	.23308	.18041	.23416
	N	26	26	26	26
TESTIS - RIGHT Ratio	MEAN	0.7595	0.7557	0.7295	0.7645
	S.D.	.06281	.07734	.13552	.06956
	N	26	26	26	26
TESTIS - LEFT Ratio	MEAN	0.7678	0.7647	0.7508	0.7704
	S.D.	.07164	.08173	.06177	.07828
	N	26	26	26	26
TESTES Ratio	MEAN	1.5178	1.4948	1.4616	1.5174
	S.D.	.13002	.15919	.17929	.14687
	N	26	26	26	26

Statistical key: * = p<0.05

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
ADRENALS Ratio	MEAN	0.0274	0.0298	0.0270	0.0286
	S.D.	.00535	.00436	.00380	.00354
	N	25	25	26	26
KIDNEYS Ratio	MEAN	1.8442	1.9971*	2.0894**	2.1645**
	S.D.	.14375	.18656	.25879	.22058
	N	26	26	26	26
LIVER Ratio	MEAN	8.9786	8.7558	8.8522	9.1818
	S.D.	.84032	1.1849	.98315	.92943
	N	26	26	26	26
LUNGS Ratio	MEAN	0.8682	0.8901	0.8429	0.8605
	S.D.	.07593	.09202	.05903	.08215
	N	26	26	26	26
PITUITARY Ratio	MEAN	0.0062	0.0062	0.0058	0.0059
	S.D.	.00071	.00117	.00117	.00086
	N	26	26	26	26
SPLEEN Ratio	MEAN	0.3856	0.3963	0.3744	0.3694
	S.D.	.05533	.05890	.05335	.04529
	N	26	26	26	26

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

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
ADRENALS Ratio	MEAN	0.0405	0.0411	0.0382	0.0402
	S.D.	.00504	.00525	.00529	.00640
	N	25	25	25	25
KIDNEYS Ratio	MEAN	1.3704	1.3475	1.3915	1.3875
	S.D.	.09912	.10864	.22982	.11823
	N	25	25	25	25
LIVER Ratio	MEAN	7.6441	7.4348	7.2823	7.5495
	S.D.	.80910	.75774	1.0451	.83710
	N	25	25	25	25
LUNGS Ratio	MEAN	0.8008	0.7916	0.7884	0.7833
	S.D.	.06435	.05370	.07527	.09246
	N	25	25	25	25
PITUITARY Ratio	MEAN	0.0075	0.0073	0.0073	0.0077
	S.D.	.00142	.00124	.00091	.00126
	N	25	25	25	25
SPLEEN Ratio	MEAN	0.3215	0.3262	0.3421	0.3196
	S.D.	.05119	.04267	.06524	.04831
	N	25	25	25	25
OVARY LEFT Ratio	MEAN	0.0292	0.0280	0.0301	0.0297
	S.D.	.00687	.00515	.00848	.00579
	N	25	25	25	25
OVARY RIGHT Ratio	MEAN	0.0277	0.0280	0.0289	0.0277
	S.D.	.00555	.00418	.00890	.00541
	N	25	25	25	25

No statistically significant differences

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TABLE 21 P0 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
OVARIES Ratio	MEAN	0.0565	0.0556	0.0563	0.0564
	S.D.	.01031	.00608	.01086	.00957
	N	25	25	25	25
UTERUS/OVIDUCTS Ratio	MEAN	0.3546	0.3346	0.3595	0.3565
	S.D.	.09318	.07723	.12366	.10577
	N	25	25	25	25

No statistically significant differences

	Mean Pup Organ Weights Preface	Table 22

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F_1 Generation % Organ to Brain Weight Ratios 112

Corresponding exposure levels for each group were as follows:

Group I - 0 mg/m^3
Group II - 2000 mg/m^3
Group III - 10000 mg/m^3
Group IV - 20000 mg/m^3

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TABLE 22 F1 GENERATION

GASOLINE ETHANOL 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		0	2000	10000	20000
BRAIN	MEAN	1.5812	1.5728	1.5842	1.5614
	S.D.	.05607	.05893	.06315	.05040
	N	25	25	25	25
of Male Pups	MEAN	1.6118	1.6140	1.6039	1.5944
	S.D.	.07127	.06814	.07180	.06560
	N	25	25	25	25
of Female Pups	MEAN	1.5506	1.5315	1.5645	1.5284
	S.D.	.06308	.07179	.07165	.04690
	N	25	25	25	25
SPLEEN	MEAN	0.3244	0.3236	0.3208	0.3206
	S.D.	.04671	.03946	.03652	.04433
	N	25	25	25	25
of Male Pups	MEAN	0.3445	0.3465	0.3378	0.3394
	S.D.	.04768	.05096	.04252	.04759
	N	25	25	25	25
of Female Pups	MEAN	0.3043	0.3007	0.3038	0.3018
	S.D.	.05590	.04294	.04452	.05176
	N	25	25	25	25
THYMUS	MEAN	0.3566	0.3655	0.3596	0.3525
	S.D.	.06067	.04525	.05726	.05608
	N	25	25	25	25
of Male Pups	MEAN	0.3673	0.3581	0.3544	0.3570
	S.D.	.08869	.05946	.06321	.06955
	N	25	25	25	25
of Female Pups	MEAN	0.3459	0.3729	0.3649	0.3480
	S.D.	.04659	.04720	.06369	.05514
	N	25	25	25	25

No statistically significant differences

Huntingdon Life Sciences 00-4203

TABLE 22 F1 GENERATION

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

SUMMARY OF PUP ORGAN WEIGHT DATA
PUP ORGAN WEIGHT TO BODY WEIGHT RATIO

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
BRAIN	MEAN	2.0267	2.0100	2.0641	2.0771
	S.D.	.13058	.17892	.16781	.18702
	N	25	25	25	25
of Male Pups	MEAN	1.9785	1.9752	2.0089	2.0362
	S.D.	.13051	.22466	.16579	.18543
	N	25	25	25	25
of Female Pups	MEAN	2.0750	2.0448	2.1193	2.1180
	S.D.	.15763	.17327	.19076	.20804
	N	25	25	25	25
SPLEEN	MEAN	0.4126	0.4101	0.4158	0.4230
	S.D.	.04617	.04491	.04783	.04837
	N	25	25	25	25
of Male Pups	MEAN	0.4210	0.4202	0.4221	0.4314
	S.D.	.04723	.05091	.05459	.05707
	N	25	25	25	25
of Female Pups	MEAN	0.4042	0.4000	0.4095	0.4147
	S.D.	.06056	.05276	.05476	.05673
	N	25	25	25	25
THYMUS	MEAN	0.4554	0.4651	0.4652	0.4659
	S.D.	.07244	.04961	.05559	.06617
	N	25	25	25	25
of Male Pups	MEAN	0.4499	0.4346	0.4402	0.4512
	S.D.	.11051	.06334	.06050	.06972
	N	25	25	25	25
of Female Pups	MEAN	0.4609	0.4956	0.4901	0.4806
	S.D.	.05481	.05664	.06782	.07760
	N	25	25	25	25

No statistically significant differences

Huntingdon Life Sciences 00-4203

TABLE 22 F1 GENERATION

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

SUMMARY OF PUP ORGAN WEIGHT DATA
PUP ORGAN WEIGHT TO BRAIN WEIGHT RATIO

DOSE GROUP		I	II	III	IV
DOSE LEVEL		0	2000	10000	20000
SPLEEN	MEAN	20.489	20.569	20.243	20.511
	S.D.	2.7686	2.4275	2.1887	2.8114
	N	25	25	25	25
of Male Pups	MEAN	21.381	21.474	21.086	21.294
	S.D.	2.8454	3.0165	2.6778	2.9520
	N	25	25	25	25
of Female Pups	MEAN	19.597	19.665	19.399	19.728
	S.D.	3.3068	2.8716	2.5782	3.2369
	N	25	25	25	25
THYMUS	MEAN	22.528	23.284	22.680	22.561
	S.D.	3.6063	2.7726	3.2200	3.4654
	N	25	25	25	25
of Male Pups	MEAN	22.754	22.190	22.112	22.368
	S.D.	5.2995	3.5102	3.9133	4.1697
	N	25	25	25	25
of Female Pups	MEAN	22.301	24.378	23.249	22.754
	S.D.	2.8303	3.1552	3.4260	3.4541
	N	25	25	25	25

No statistically significant differences

	Lesion Incidence Summary with Expanded Severity Levels Preface	Table 23

Key to Abbreviations

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

Corresponding exposure levels for each group were as follows:

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

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

Lesion Incidence Summary With Expanded Severity Levels

Controls from group(s): 1	Animal sex:	-- Males --				-- Females --			
	Dosage group:	Ctls	2	3	4	Ctls	2	3	4
Tissues With Diagnoses	No. in group:	26	26	26	26	25	25	25	25
Lungs .....Number examined:		10	0	0	10	10	0	0	10
ALVEOLAR/INTRAALVEOLAR MACROPHAGES									
	Nad>	10	0	0	7	5	0	0	9
	Minimal>	0	0	0	3	5	0	0	1
.....Total Incidence of Finding Observed:		0	0	0	3	5	0	0	1
PERIVASCULAR GRANULOCYTIC INFILTRATE									
	Nad>	10	0	0	10	9	0	0	8
	Minimal>	0	0	0	0	1	0	0	2
.....Total Incidence of Finding Observed:		0	0	0	0	1	0	0	2
OSSEOUS METAPLASIA									
	Nad>	9	0	0	10	10	0	0	9
	Minimal>	1	0	0	0	0	0	0	1
.....Total Incidence of Finding Observed:		1	0	0	0	0	0	0	1
INTERSTITIUM: SUBACUTE/CHRONIC INFLAMMATION									
	Nad>	9	0	0	8	10	0	0	9
	Minimal>	1	0	0	2	0	0	0	1
.....Total Incidence of Finding Observed:		1	0	0	2	0	0	0	1
Right Epididymis .....Number examined:		10	0	0	10				
Right Testis .....Number examined:		10	0	0	10				
Coagulating Gl .....Number examined:		10	0	0	10				
Seminal vesicles .....Number examined:		10	0	0	10				
Prostate .....Number examined:		10	0	0	10				

All Diagnoses; Phases: P2; Death types: All; Date of death range: 07-May-02 To 03-Jun-02

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

Lesion Incidence Summary With Expanded Severity Levels

Controls from group(s): 1

Tissues With Diagnoses	Animal sex:	-- Animals Affected -- Males --				-- Females --			
	Dosage group:	Ctls	2	3	4	Ctls	2	3	4
	No. in group:	26	26	26	26	25	25	25	25
Uterus	Number examined:					10	0	0	10
LUMEN: DILATED									
	Nad>					9	0	0	6
	Minimal>					1	0	0	0
	Slight>					0	0	0	1
	Moderate>					0	0	0	3
.....Total Incidence of Finding	Observed:					1	0	0	4
Oviducts/Fallop	Number examined:					10	0	0	10
LUMEN: CELLULAR DEBRIS									
	Nad>					9	0	0	10
	Minimal>					1	0	0	0
.....Total Incidence of Finding	Observed:					1	0	0	0
Vagina	Number examined:					10	0	0	10
Adrenal Glands	Number examined:	10	0	0	10	10	0	0	10
MEDULLA: MINERALIZATION									
	Nad>	10	0	0	10	10	0	0	9
	Marked>	0	0	0	0	0	0	0	1
.....Total Incidence of Finding	Observed:	0	0	0	0	0	0	0	1
Pituitary gland	Number examined:	10	0	0	10	10	0	0	10
Ovaries	Number examined:					10	0	0	10
Kidneys	Number examined:	0	0	0	0	1	0	0	2
CORTEX: CONVOLUTED TUBULAR EPITHELIUM-BASOPHILIC									
	Nad>	0	0	0	0	1	0	0	1
	Minimal>	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: 07-May-02 To 03-Jun-02

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

Lesion Incidence Summary With Expanded Severity Levels

Controls from group(s): 1

Tissues With Diagnoses	Animal sex:	-- Animals Affected -- Males --				-- Females --			
	Dosage group:	Ctls	2	3	4	Ctls	2	3	4
	No. in group:	26	26	26	26	25	25	25	25
Kidneys .....Number examined:		0	0	0	0	1	0	0	2
PELVIS: DILATED									
	Nad>	0	0	0	0	1	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
MONONUCLEAR CELL INFILTRATE									
	Nad>	0	0	0	0	1	0	0	1
	Minimal>	0	0	0	0	0	0	0	1
.....Total Incidence of Finding Observed:		0	0	0	0	0	0	0	1
MEDULLA: MINIERALIZATION									
	Nad>	0	0	0	0	1	0	0	1
	Slight>	0	0	0	0	0	0	0	1
.....Total Incidence of Finding Observed:		0	0	0	0	0	0	0	1
Liver .....Number examined:		0	0	0	0	0	0	0	1
Thymus .....Number examined:		0	0	0	1	0	0	0	0

All Diagnoses; Phases: P2; Death types: All; Date of death range: 07-May-02 To 03-Jun-02

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1. INTRODUCTION

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

2. MATERIALS AND METHODS

2.1. HUSBANDRY DURING EXPOSURE PERIODS

2.1.1. HOUSING

Animals were individually housed in stainless steel, wire mesh cages within a 1.5 m^3 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 26 °C

The daily average temperature within the chamber was outside the desired range on 80/133 days, 93/126 days, 90/130 days and 89/126 days for Groups 1, 2, 3 and 4, respectively.

Relative Humidity

Desired: 40 to 60%
Actual: 32 to 64%

The daily average relative humidity within the chamber was outside the desired range on 12/133 days, 12/126 days, 29/130 days and 33/126 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.

2.2.4. TARGET EXPOSURE LEVELS

Group I - 0 mg/m^3

Group II - 2000 mg/m^3
Group III - 10000 mg/m^3
Group IV - 20000 mg/m^3

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 (00-6127). The exposure levels were also selected based on the lower flammable limits of the test substance.

2.2.6. FREQUENCY OF ADMINISTRATION

Frequency

P_0 males and females received 70 consecutive days (ten weeks) of exposure prior to mating for six hours/day. P_0 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_0 females were exposed daily until weaning of the F_1 offspring on Day 28. P_0 females with no confirmed day of mating but with evidence of pregnancy continued exposure until presumed Day 19 of gestation. P_0 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_0 females with a confirmed day of mating that did not deliver were euthanized on presumed Day 25 of gestation.

P_0 males were exposed daily until euthanasia, which occurred proximate to the date that the last F_1 litters were weaned.

2.2.7. DURATION

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

2.2.8. EXPOSURE PROCEDURE AND CHAMBER OPERATIONS

Group I

Houseline nitrogen was delivered from a regulator with a backpressure gauge via ¼" tubing to a flowmeter regulated by a metering valve. This nitrogen flow (~ 20 Lpm) was then directed into the turret of the 1.5 m^3 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.

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^3 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^3). 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_{99} equilibrium time (calculated by multiplying the air change by the exponential factor 4.6) of at most 23 minutes:

Group	**Airflow Rate (Lpm)**	**Air Change (min)**	**T_{99} (min)**
I	317	4.7	22
II	306	4.9	23
III	314	4.8	22
IV	306	4.9	23

This chamber size and airflow rate was considered adequate to maintain the oxygen level at least 19% and the animal-loading

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

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

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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.

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Table I
Summary of In-Chamber Observations

Exposure Day	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**
Group I – 0 mg/m^3																	
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2000 mg/m^3																	
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m^3																	
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m^3																	
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

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.

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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^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.
Note: In-chamber observations are based on all animals present in the exposure chamber at the time.

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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^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2,000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.
Note: In-chamber observations are based on all animals present in the exposure chamber at the time.

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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^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.
Note: In-chamber observations are based on all animals present in the exposure chamber at the time.

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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^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.
Note: In-chamber observations are based on all animals present in the exposure chamber at the time.

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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^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.
Note: In-chamber observations are based on all animals present in the exposure chamber at the time.

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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^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group III – 10000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m^3																
Normal Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All

All = 100% of the animals exhibiting a given observation.
Note: In-chamber observations are based on all animals present in the exposure chamber at the time.

	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**	**127**	**128**
Group I – 0 mg/m^3																
Normal																
Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group II – 2000 mg/m^3																
Normal																
Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	-	-	-
Group III – 10000 mg/m^3																
Normal																
Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All	All
Group IV – 20000 mg/m^3																
Normal																
Within Normal Limits	All	All	All	All	All	All	All	All	All	All	All	All	All	-	-	-

All = 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	**129**	**130**	**131**	**132**
Group I – 0 mg/m^3				
Normal Within Normal Limits	All	All	All	All
Group II – 2000 mg/m^3				
Normal Within Normal Limits	-	-	-	-
Group III – 10000 mg/m^3				
Normal Within Normal Limits	All	-	-	-
Group IV – 20000 mg/m^3				
Normal Within Normal Limits	-	-	-	-

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

Chamber Monitoring Results
Cumulative Exposure Record
Group I - 0 mg/m^3 (Air Control)

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment Mean: Temperature (°C)	Humidity (%)
0	21-Jan-02	1	0	0	0	0	0	0				25	35
1	22-Jan-02	2	0	0	0	0	0	0				25	44
2	23-Jan-02	3	0	0	0	0	0	0				25	48
3	24-Jan-02	4	0	0	0	0	0	0	1.946	2.132	2.16E-03	24	42
4	25-Jan-02	5	0	0	0	0	0	0				25	42
5	26-Jan-02	6	0	0	0	0	0	0				25	46
6	27-Jan-02	7	0	0	0	0	0	0				25	46
7	28-Jan-02	8	0	0	0	0	0	0				24	41
8	29-Jan-02	9	0	0	0	0	0	0				24	42
9	30-Jan-02	10	0	0	0	0	0	0				25	56
10	31-Jan-02	11	0	0	0	0	0	0	1.233	2.334	5.07E-03	23	48
11	1-Feb-02	12	0	0	0	0	0	0				23	50
12	2-Feb-02	13	0	0	0	0	0	0				24	48
13	3-Feb-02	14	0	0	0	0	0	0				23	41
14	4-Feb-02	15	0	0	0	0	0	0				24	42
15	5-Feb-02	16	0	0	0	0	0	0				23	48
16	6-Feb-02	17	0	0	0	0	0	0				23	46
17	7-Feb-02	18	0	0	0	0	0	0	0.9639	1.803	3.97E-03	22	64
18	8-Feb-02	19	0	0	0	0	0	0				23	46
19	9-Feb-02	20	0	0	0	0	0	0				24	43
20	10-Feb-02	21	0	0	0	0	0	0				24	47

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Cumulative Exposure Record
Group I - 0 mg/m^3 (Air Control)

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Humidity (%)
21	11-Feb-02	22	0	0	0	0	0	0				24	39
22	12-Feb-02	23	0	0	0	0	0	0				25	46
23	13-Feb-02	24	0	0	0	0	0	0				25	44
24	14-Feb-02	25	0	0	0	0	0	0	1.071	1.527	1.21E-03	25	44
25	15-Feb-02	26	0	0	0	0	0	0				25	48
26	16-Feb-02	27	0	0	0	0	0	0				25	45
27	17-Feb-02	28	0	0	0	0	0	0				25	43
28	18-Feb-02	29	0	0	0	0	0	0				25	43
29	19-Feb-02	30	0	0	0	0	0	0				25	43
30	20-Feb-02	31	0	0	0	0	0	0				25	43
31	21-Feb-02	32	0	0	0	0	0	0	0.9094	1.973	8.17E-03	24	55
32	22-Feb-02	33	0	0	0	0	0	0				25	43
33	23-Feb-02	34	0	0	0	0	0	0				25	47
34	24-Feb-02	35	0	0	0	0	0	0				25	44
35	25-Feb-02	36	0	0	0	0	0	0				25	43
36	26-Feb-02	37	0	0	0	0	0	0				25	46
37	27-Feb-02	38	0	0	0	0	0	0				25	46
38	28-Feb-02	39	0	0	0	0	0	0	6.406	2.264	4.41E-03	25	43
39	1-Mar-02	40	0	0	0	0	0	0				25	42
40	2-Mar-02	41	0	0	0	0	0	0				25	45
41	3-Mar-02	42	0	0	0	0	0	0				25	56
42	4-Mar-02	43	0	0	0	0	0	0				25	45

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Chamber Monitoring Results
Cumulative Exposure Record
Group I - 0 mg/m^3 (Air Control)

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Humidity (%)
43	5-Mar-02	44	0	0	0	0	0	0				25	42
44	6-Mar-02	45	0	0	0	0	0	0				25	45
45	7-Mar-02	46	0	0	0	0	0	0	2.222	2.552	6.06E-03	25	43
46	8-Mar-02	47	0	0	0	0	0	0				25	48
47	9-Mar-02	48	0	0	0	0	0	0				25	55
48	10-Mar-02	49	0	0	0	0	0	0				25	47
49	11-Mar-02	50	0	0	0	0	0	0				25	44
50	12-Mar-02	51	0	0	0	0	0	0				25	47
51	13-Mar-02	52	0	0	0	0	0	0				25	49
52	14-Mar-02	53	0	0	0	0	0	0	0.9943	2.473	9.33E-03	25	49
53	15-Mar-02	54	0	0	0	0	0	0				25	51
54	16-Mar-02	55	0	0	0	0	0	0				25	55
55	17-Mar-02	56	0	0	0	0	0	0				25	48
56	18-Mar-02	57	0	0	0	0	0	0				25	48
57	19-Mar-02	58	0	0	0	0	0	0				25	44
58	20-Mar-02	59	0	0	0	0	0	0				25	48
59	21-Mar-02	60	0	0	0	0	0	0	0.8771	2.238	4.99E-03	25	44
60	22-Mar-02	61	0	0	0	0	0	0				25	44
61	23-Mar-02	62	0	0	0	0	0	0				25	42
62	24-Mar-02	63	0	0	0	0	0	0				25	39
63	25-Mar-02	64	0	0	0	0	0	0				25	42
64	26-Mar-02	65	0	0	0	0	0	0				24	46

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Chamber Monitoring Results
Cumulative Exposure Record
Group I - 0 mg/m^3 (Air Control)

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Humidity (%)
65	27-Mar-02	66	0	0	0	0	0	0				25	46
66	28-Mar-02	67	0	0	0	0	0	0	1.073	1.740	1.90E-03	25	45
67	29-Mar-02	68	0	0	0	0	0	0				25	46
68	30-Mar-02	69	0	0	0	0	0	0				25	54
69	31-Mar-02	70	0	0	0	0	0	0				25	45
70	1-Apr-02	71	0	0	0	0	0	0				24	45
71	2-Apr-02	72	0	0	0	0	0	0				25	40
72	3-Apr-02	73	0	0	0	0	0	0				25	52
73	4-Apr-02	74	0	0	0	0	0	0	3.665	2.044	3.33E-03	25	38
74	5-Apr-02	75	0	0	0	0	0	0				25	38
75	6-Apr-02	76	0	0	0	0	0	0				25	39
76	7-Apr-02	77	0	0	0	0	0	0				25	44
77	8-Apr-02	78	0	0	0	0	0	0				24	45
78	9-Apr-02	79	0	0	0	0	0	0				25	52
79	10-Apr-02	80	0	0	0	0	0	0				25	46
80	11-Apr-02	81	0	0	0	0	0	0	1.656	2.401	4.53E-03	25	44
81	12-Apr-02	82	0	0	0	0	0	0				25	49
82	13-Apr-02	83	0	0	0	0	0	0				25	57
83	14-Apr-02	84	0	0	0	0	0	0				25	56
84	15-Apr-02	85	0	0	0	0	0	0				25	56
85	16-Apr-02	86	0	0	0	0	0	0				25	55
86	17-Apr-02	87	0	0	0	0	0	0				25	54

GASOLINE ETHANOL VAPOR CONDENSATE: A ONE-GENERATION WHOLE-BODY
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Chamber Monitoring Results
Cumulative Exposure Record
Group I - 0 mg/m^3 (Air Control)

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment Mean: Temperature (°C)	Humidity (%)
87	18-Apr-02	88	0	0	0	0	0	0	3.802	3.678	1.22E-02	25	55
88	19-Apr-02	89	0	0	0	0	0	0				25	57
89	20-Apr-02	90	0	0	0	0	0	0				25	52
90	21-Apr-02	91	0	0	0	0	0	0				25	41
91	22-Apr-02	92	0	0	0	0	0	0				25	43
92	23-Apr-02	93	0	0	0	0	0	0				24	35
93	24-Apr-02	94	0	0	0	0	0	0				24	34
94	25-Apr-02	95	0	0	0	0	0	0	6.281	2.505	5.33E-03	24	40
95	26-Apr-02	96	0	0	0	0	0	0				24	37
96	27-Apr-02	97	0	0	0	0	0	0				24	37
97	28-Apr-02	98	0	0	0	0	0	0				24	45
98	29-Apr-02	99	0	0	0	0	0	0				24	40
99	30-Apr-02	100	0	0	0	0	0	0				25	39
100	1-May-02	101	0	0	0	0	0	0				25	43
101	2-May-02	102	0	0	0	0	0	0	1.301	1.918	2.74E-03	25	48
102	3-May-02	103	0	0	0	0	0	0				25	40
103	4-May-02	104	0	0	0	0	0	0				25	43
104	5-May-02	105	0	0	0	0	0	0				25	42
105	6-May-02	106	0	0	0	0	0	0				25	47
106	7-May-02	107	0	0	0	0	0	0				24	55
107	8-May-02	108	0	0	0	0	0	0				23	49
108	9-May-02	109	0	0	0	0	0	0	1.133	1.686	1.63E-03	23	47

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

Chamber Monitoring Results
Cumulative Exposure Record
Group I - 0 mg/m^3 (Air Control)

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment Mean: Temperature (°C)	Humidity (%)
109	10-May-02	110	0	0	0	0	0	0				23	52
110	11-May-02	111	0	0	0	0	0	0				23	40
111	12-May-02	112	0	0	0	0	0	0				23	51
112	13-May-02	113	0	0	0	0	0	0				23	54
113	14-May-02	114	0	0	0	0	0	0				23	44
114	15-May-02	115	0	0	0	0	0	0				23	42
115	16-May-02	116	0	0	0	0	0	0	8.969	2.105	1.39E-02	23	44
116	17-May-02	117	0	0	0	0	0	0				23	52
117	18-May-02	118	0	0	0	0	0	0				23	46
118	19-May-02	119	0	0	0	0	0	0				23	41
119	20-May-02	120	0	0	0	0	0	0				22	42
120	21-May-02	121	0	0	0	0	0	0				22	42
121	22-May-02	122	0	0	0	0	0	0				22	41
122	23-May-02	123	0	0	0	0	0	0	4.487	2.636	3.84E-03	21	40
123	24-May-02	124	0	0	0	0	0	0				21	48
124	25-May-02	125	0	0	0	0	0	0				21	43
125	26-May-02	126	0	0	0	0	0	0				21	52
126	27-May-02	127	0	0	0	0	0	0				21	50
127	28-May-02	128	0	0	0	0	0	0				21	50
128	29-May-02	129	0	0	0	0	0	0				21	51
129	30-May-02	130	0	0	0	0	0	0	0.8815	1.754	3.83E-03	21	49
130	31-May-02	131	0	0	0	0	0	0				21	51
131	1-Jun-02	132	0	0	0	0	0	0				21	51
132	2-Jun-02	133	0	0	0	0	0	0				21	49
		Mean	**0**			**0**			**2.625**	**2.198**	**5.19E-03**	**24.2**	**46.0**
		S.D.	**0**			**0**			**2.364**	**0.482**	**3.46E-03**	**1.3**	**5.3**

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

Chamber Monitoring Results
Cumulative Exposure Record
Group II - 2000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
0	21-Jan-02	1	1900	2088	2070	2120	2120	2040				25	34
1	22-Jan-02	2	1960	2028	2020	2030	2040	2020				26	44
2	23-Jan-02	3	2010	2015	2070	1960	2020	2010				26	49
3	24-Jan-02	4	2060	2143	2170	2190	2200	2010	3.732	2.53	4.47E-03	25	44
4	25-Jan-02	5	1920	2003	2090	1980	1960	1980				26	42
5	26-Jan-02	6	2330	2300	1960	2340	3020	1880				25	49
6	27-Jan-02	7	2270	2398	2650	2150	2290	2500				26	46
7	28-Jan-02	8	1710	1985	1910	1940	2060	2030				25	40
8	29-Jan-02	9	1850	2028	1970	2010	2040	2090				25	43
9	30-Jan-02	10	1880	1965	2020	1940	1940	1960				25	60
10	31-Jan-02	11	1870	2010	1980	1940	2070	2050	0.8949	1.662	3.72E-03	24	48
11	1-Feb-02	12	2430	2535	2250	2580	2650	2660				24	50
12	2-Feb-02	13	2260	2303	2400	2560	2180	2070				24	50
13	3-Feb-02	14	2080	2238	2600	1860	2270	2220				24	41
14	4-Feb-02	15	1930	1995	1960	1960	2070	1990				24	43
15	5-Feb-02	16	1770	1985	2040	1930	2000	1970				24	48
16	6-Feb-02	17	1600	1963	1960	1850	1990	2050				24	47
17	7-Feb-02	18	1850	1963	1960	1950	1900	2040	0.9811	1.933	4.01E-03	24	64
18	8-Feb-02	19	1870	2028	1990	2030	2050	2040				24	45
19	9-Feb-02	20	1920	2015	1940	2090	1990	2040				25	43
20	10-Feb-02	21	1880	2020	2010	2060	2000	2010				25	48

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Cumulative Exposure Record
Group II - 2000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Humidity (%)
21	11-Feb-02	22	2020	2008	2000	2010	2010	2010				25	39
22	12-Feb-02	23	1940	1998	2020	1920	2020	2030				26	47
23	13-Feb-02	24	2010	2000	2050	2000	1930	2020				26	45
24	14-Feb-02	25	2080	1995	2010	2010	1960	2000	1.198	1.539	1.28E-03	26	44
25	15-Feb-02	26	2010	2025	2000	2030	2060	2010				26	49
26	16-Feb-02	27	1890	2043	2080	2000	2010	2080				26	46
27	17-Feb-02	28	1990	1983	1920	1950	1980	2080				26	44
28	18-Feb-02	29	1920	1948	1870	1950	2000	1970				26	41
29	19-Feb-02	30	2010	1975	2060	1850	2020	1970				26	43
30	20-Feb-02	31	2030	1978	1960	1940	1960	2050				25	44
31	21-Feb-02	32	1980	2008	1890	2010	2050	2080	1.596	2.514	1.26E-02	26	49
32	22-Feb-02	33	2190	1950	2070	1820	1920	1990				26	42
33	23-Feb-02	34	2630	2325	2060	2910	2510	1820				26	46
34	24-Feb-02	35	2280	2173	1610	2400	2350	2330				26	44
35	25-Feb-02	36	1880	1820	1630	1870	1870	1910				26	42
36	26-Feb-02	37	1820	1993	1830	2090	2030	2020				26	46
37	27-Feb-02	38	1840	1908	1890	1900	1950	1890				26	45
38	28-Feb-02	39	1980	2003	2040	2000	1960	2010	2.605	2.065	1.63E-03	26	44
39	1-Mar-02	40	2000	2013	1860	2110	1990	2090				26	44
40	2-Mar-02	41	2030	2019	2010	2050	1885	2130				26	47
41	3-Mar-02	42	2290	2280	2740	2650	1720	2010				26	54
42	4-Mar-02	43	1930	2030	1970	2060	1960	2130				25	44

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Cumulative Exposure Record
Group II - 2000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
43	5-Mar-02	44	1870	2135	2180	2170	2100	2090				26	43
44	6-Mar-02	45	1940	2008	2090	1960	1870	2110				26	47
45	7-Mar-02	46	1910	2063	2010	2160	2090	1990	1.329	2.334	4.72E-03	25	45
46	8-Mar-02	47	1950	2088	2120	2140	2100	1990				25	48
47	9-Mar-02	48	1950	2025	1950	2020	2020	2110				26	54
48	10-Mar-02	49	2130	2300	2130	2300	2180	2590				25	46
49	11-Mar-02	50	2000	2243	2300	2260	2130	2280				25	45
50	12-Mar-02	51	1950	2135	2110	2230	2090	2110				26	47
51	13-Mar-02	52	2080	2175	2080	2290	2240	2090				26	50
52	14-Mar-02	53	1950	2233	2270	2280	2250	2130	1.061	2.292	1.07E-02	25	49
53	15-Mar-02	54	1860	2220	2210	2230	2290	2150				26	52
54	16-Mar-02	55	2600	2698	2190	2720	3010	2870				26	56
55	17-Mar-02	56	2030	2298	2000	2080	2770	2340				26	47
56	18-Mar-02	57	1700	2005	2080	1950	1950	2040				26	47
57	19-Mar-02	58	1790	1968	1880	1970	2010	2010				26	43
58	20-Mar-02	59	1640	1965	1920	1930	1990	2020				26	48
59	21-Mar-02	60	1830	1995	2080	2000	1970	1930	16.75	3.589	1.66E-02	26	44
60	22-Mar-02	61	1710	2005	2010	2000	2020	1990				26	44
61	23-Mar-02	62	1810	2008	2020	2010	1950	2050				25	43
62	24-Mar-02	63	1820	1978	1870	1990	2030	2020				25	38
63	25-Mar-02	64	1900	2015	1960	2040	2000	2060				26	41
64	26-Mar-02	65	1850	1958	1920	1910	2030	1970				25	46

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

Chamber Monitoring Results
Cumulative Exposure Record
Group II - 2000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
65	27-Mar-02	66	1850	2018	2030	2000	2010	2030				25	46
66	28-Mar-02	67	2000	1923	1820	1930	1960	1980	3.571	2.214	5.73E-03	25	45
67	29-Mar-02	68	2070	1875	1900	1820	1870	1910				26	45
68	30-Mar-02	69	2700	2363	2880	2280	2260	2030				25	52
69	31-Mar-02	70	1910	1688	1400	1670	1730	1950				25	46
70	1-Apr-02	71	2020	1915	1740	1910	2050	1960				25	45
71	2-Apr-02	72	2090	2088	2180	2110	2050	2010				25	40
72	3-Apr-02	73	2010	2013	2050	2030	1980	1990				26	53
73	4-Apr-02	74	2100	2000	2010	1980	2010	2000	1.669	1.908	1.21E-03	26	38
74	5-Apr-02	75	2150	2160	2130	2160	2170	2180				26	39
75	6-Apr-02	76	2580	2533	2140	3070	3040	1880				25	39
76	7-Apr-02	77	2550	2100	1920	2640	2030	1810				25	43
77	8-Apr-02	78	1830	1790	1600	1800	1850	1910				26	45
78	9-Apr-02	79	2110	1998	2010	2000	2020	1960				25	51
79	10-Apr-02	80	1980	1998	2050	1910	1900	2130				25	46
80	11-Apr-02	81	2010	1955	1890	2000	1940	1990	1.869	2.055	5.16E-03	25	44
81	12-Apr-02	82	2050	2033	2080	2010	2080	1960				26	49
82	13-Apr-02	83	2120	2005	2010	1960	2030	2020				26	57
83	14-Apr-02	84	2130	2020	2010	2050	2020	2000				25	54
84	15-Apr-02	85	2070	2040	1840	2100	2050	2170				25	58
85	16-Apr-02	86	2040	2033	2010	2050	2050	2020				25	55
86	17-Apr-02	87	2040	2048	2070	2000	2010	2110				26	56

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

Chamber Monitoring Results
Cumulative Exposure Record
Group II - 2000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
87	18-Apr-02	88	2050	2023	2000	2010	2110	1970	0.9967	2.160	7.53E-03	26	56
88	19-Apr-02	89	1980	2035	2070	2090	2060	1920				25	57
89	20-Apr-02	90	2060	1938	1880	1940	1990	1940				25	53
90	21-Apr-02	91	2590	2155	2340	1600	2360	2320				26	39
91	22-Apr-02	92	2030	1943	1860	1940	1980	1990				25	43
92	23-Apr-02	93	2020	1993	2010	2000	1970	1990				25	34
93	24-Apr-02	94	2120	2025	1990	1980	2040	2090				24	34
94	25-Apr-02	95	2040	1988	1980	1950	2090	1930	1.410	1.826	2.11E-03	24	40
95	26-Apr-02	96	2060	2010	2040	1920	1970	2110				24	37
96	27-Apr-02	97	2080	2015	2000	2010	2010	2040				24	37
97	28-Apr-02	98	2090	2018	1940	2060	2020	2050				24	45
98	29-Apr-02	99	2170	2025	1950	2070	2020	2060				25	41
99	30-Apr-02	100	2100	2018	2010	2040	2000	2020				25	40
100	1-May-02	101	2720	2625	2680	2640	2620	2560				25	44
101	2-May-02	102	2160	2125	1500	2490	2490	2020	7.269	2.246	4.64E-02	26	50
102	3-May-02	103	2070	1970	1960	2030	2030	1860				26	41
103	4-May-02	104	1880	1863	1630	1820	2000	2000				26	44
104	5-May-02	105	2210	2328	2260	2230	2280	2540				25	43
105	6-May-02	106	1810	1998	1810	2110	1960	2110				25	48
106	7-May-02	107	1980	2025	2000	2140	1910	2050				25	53
107	8-May-02	108	2350	2103	1820	2350	2180	2060				24	51
108	9-May-02	109	2480	2133	1910	2100	2200	2320	1.255	1.610	1.84E-03	24	47

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

Chamber Monitoring Results
Cumulative Exposure Record
Group II - 2000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment Mean: Temperature (°C)	Humidity (%)
109	10-May-02	110	1890	1735	1310	1770	1880	1980				24	51
110	11-May-02	111	2060	1993	2050	1950	1910	2060				24	40
111	12-May-02	112	2080	1990	2090	1930	1930	2010				24	50
112	13-May-02	113	2200	2070	2000	1940	2050	2290				24	52
113	14-May-02	114	2150	1970	1910	1860	2050	2060				24	44
114	15-May-02	115	2590	2465	2930	2150	2330	2390				24	42
115	16-May-02	116	2160	1968	1990	2070	1850	1960	9.465	2.24	1.22E-02	24	44
116	17-May-02	117	2200	2000	2000	2020	2000	1980				23	52
117	18-May-02	118	2320	1953	1900	1980	2010	1920				23	46
118	19-May-02	119	2720	2455	2020	2830	2610	2360				23	41
119	20-May-02	120	2080	2048	2040	2050	2100	2000				23	42
120	21-May-02	121	1900	2023	2070	2020	1990	2010				23	42
121	22-May-02	122	2360	2000	2120	1990	1980	1910				22	41
122	23-May-02	123	2090	2098	2320	2040	2000	2030	3.987	2.473	4.24E-03	22	40
123	24-May-02	124	2070	2228	2330	2260	2110	2210				22	46
124	25-May-02	125	2750	2665	2000	2980	2740	2940				22	41
125	26-May-02	126	1710	2038	1810	2200	2130	2010				22	49
		Mean	**2057**		**2068**				**3.424**	**2.177**	**8.12E-03**	**25.0**	**45.8**
		S.D.	**232**		**224**				**4.064**	**0.463**	**1.05E-02**	**1.1**	**5.4**

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

Chamber Monitoring Results
Cumulative Exposure Record
Group III - 10000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Humidity (%)
0	21-Jan-02	1	10900	10150	10200	10300	10100	10000				25	32
1	22-Jan-02	2	10900	10010	10100	10000	9840	10100				26	42
2	23-Jan-02	3	10800	10100	10100	10000	10300	10000				26	46
3	24-Jan-02	4	11000	9973	9960	10000	9930	10000	2.956	2.396	2.68E-03	25	40
4	25-Jan-02	5	10700	10020	9990	10200	10000	9900				26	40
5	26-Jan-02	6	10900	10350	10400	10600	10400	10000				25	44
6	27-Jan-02	7	10500	9923	10000	10000	10000	9690				26	44
7	28-Jan-02	8	10600	10120	9990	10100	10200	10200				24	38
8	29-Jan-02	9	10700	10160	10400	10200	9840	10200				24	40
9	30-Jan-02	10	11200	10060	10000	10100	9840	10300				25	54
10	31-Jan-02	11	11000	10100	10100	10200	10000	10100	0.9180	1.780	2.90E-03	24	44
11	1-Feb-02	12	10900	10380	10800	10300	10200	10200				24	47
12	2-Feb-02	13	10600	10440	10800	10900	10200	9870				24	45
13	3-Feb-02	14	10400	9878	10000	8750	9960	10800				24	38
14	4-Feb-02	15	10200	10090	10000	10200	9660	10500				24	40
15	5-Feb-02	16	10600	10350	10500	10400	10200	10300				24	44
16	6-Feb-02	17	10500	10050	10100	10000	9990	10100				24	43
17	7-Feb-02	18	10500	9975	10200	9840	9960	9900	0.8943	1.599	3.05E-03	24	58
18	8-Feb-02	19	10500	9940	9900	9990	9870	10000				24	41
19	9-Feb-02	20	10600	9958	10000	9840	10000	9990				25	39
20	10-Feb-02	21	10500	10250	10200	10200	10300	10300				25	44

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

Chamber Monitoring Results
Cumulative Exposure Record
Group III - 10000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
21	11-Feb-02	22	10600	10380	10800	9870	9840	11000				24	36
22	12-Feb-02	23	10500	9948	10100	10000	9830	9860				26	43
23	13-Feb-02	24	10400	10030	10000	10100	9830	10200				26	40
24	14-Feb-02	25	10500	10060	10400	9950	9890	10000	1.762	2.394	2.13E-03	25	40
25	15-Feb-02	26	10300	9980	9920	10100	10100	9800				26	46
26	16-Feb-02	27	10300	9763	9740	10100	9530	9680				26	43
27	17-Feb-02	28	10600	10120	10500	10200	9560	10200				26	39
28	18-Feb-02	29	10400	9955	10000	9830	10100	9890				26	39
29	19-Feb-02	30	9940	9815	9410	9920	9980	9950				25	40
30	20-Feb-02	31	10600	9920	9380	10000	10100	10200				25	41
31	21-Feb-02	32	10500	10180	10000	10100	9920	10700	0.8553	2.051	7.90E-03	26	45
32	22-Feb-02	33	10800	10190	10700	9740	10000	10300				25	40
33	23-Feb-02	34	10700	9808	10000	8930	10000	10300				25	43
34	24-Feb-02	35	10900	10060	9890	10400	9740	10200				25	41
35	25-Feb-02	36	10600	9988	9650	10200	10100	10000				25	40
36	26-Feb-02	37	10500	10120	9980	10400	10100	10000				25	45
37	27-Feb-02	38	10800	10300	10800	10100	10300	10000				25	43
38	28-Feb-02	39	10700	10170	10400	10400	9890	9980	3.589	2.112	1.87E-03	25	41
39	1-Mar-02	40	10700	10080	9530	10300	10200	10300				25	40
40	2-Mar-02	41	10800	10070	9950	10200	9920	10200				25	50
41	3-Mar-02	42	11000	10250	10200	10600	10100	10100				26	52
42	4-Mar-02	43	10700	10060	9950	10000	10100	10200				25	41

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

Chamber Monitoring Results
Cumulative Exposure Record
Group III - 10000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
43	5-Mar-02	44	10600	10020	10000	10000	9980	10100				25	40
44	6-Mar-02	45	10200	9993	10000	10100	9980	9890				25	41
45	7-Mar-02	46	10700	10110	10000	10600	10000	9830	3.070	2.727	6.15E-03	25	41
46	8-Mar-02	47	10700	10070	10300	10400	9560	10000				25	44
47	9-Mar-02	48	10700	10130	10000	10100	10300	10100				25	49
48	10-Mar-02	49	10800	10150	9710	10400	10100	10400				25	42
49	11-Mar-02	50	10500	10330	10800	10400	10000	10100				25	42
50	12-Mar-02	51	10200	10080	9830	10100	10200	10200				26	43
51	13-Mar-02	52	10200	10330	10400	10300	10500	10100				25	46
52	14-Mar-02	53	10300	10500	10000	10800	10800	10400	0.8638	2.261	7.25E-03	25	46
53	15-Mar-02	54	9990	10400	10300	10400	10400	10500				25	47
54	16-Mar-02	55	10700	10350	10400	10100	10400	10500				26	52
55	17-Mar-02	56	10200	10030	10100	9950	9950	10100				25	45
56	18-Mar-02	57	10100	9608	10300	9980	7650	10500				26	45
57	19-Mar-02	58	10200	10350	10100	10400	10500	10400				25	41
58	20-Mar-02	59	10100	10150	10100	10100	10300	10100				25	45
59	21-Mar-02	60	10200	10300	10200	10400	10200	10400	0.9002	3.354	4.60E-03	25	41
60	22-Mar-02	61	10200	10450	10400	10600	10500	10300				25	40
61	23-Mar-02	62	10200	10280	10000	10400	10400	10300				25	39
62	24-Mar-02	63	10100	10200	10100	10400	10300	10000				26	34
63	25-Mar-02	64	10200	10430	10600	10400	10500	10200				25	39
64	26-Mar-02	65	10000	10130	10100	10200	10200	10000				24	43

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

Chamber Monitoring Results
Cumulative Exposure Record
Group III - 10000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment Mean: Temperature (°C)	Humidity (%)
65	27-Mar-02	66	10200	10380	10400	10400	10400	10300				25	42
66	28-Mar-02	67	10600	9635	9110	9630	9700	10100	1.676	1.949	3.02E-03	25	41
67	29-Mar-02	68	10800	10010	10000	10100	9930	10000				25	43
68	30-Mar-02	69	11100	9620	9110	9270	10100	10000				25	49
69	31-Mar-02	70	11000	9983	9630	9800	10200	10300				25	43
70	1-Apr-02	71	11000	10000	9700	9500	10300	10500				24	51
71	2-Apr-02	72	11100	10230	10100	10400	10200	10200				25	38
72	3-Apr-02	73	11200	10350	10500	10400	10400	10100				25	50
73	4-Apr-02	74	11100	10160	10100	9930	10300	10300	4.488	2.273	3.90E-03	25	36
74	5-Apr-02	75	10900	10280	10600	10400	9930	10200				25	36
75	6-Apr-02	76	11000	10120	10200	10400	10000	9860				25	37
76	7-Apr-02	77	11000	9828	9860	10300	10400	8750				25	40
77	8-Apr-02	78	11100	9993	9900	10000	9770	10300				25	42
78	9-Apr-02	79	11100	10100	10100	10200	10100	10000				26	48
79	10-Apr-02	80	11100	10100	10200	10000	10100	10100				25	43
80	11-Apr-02	81	11000	10020	10000	9960	10000	10100	7.031	3.016	7.97E-03	26	41
81	12-Apr-02	82	10800	10030	10200	9960	10000	9960				26	46
82	13-Apr-02	83	11000	10150	10100	10000	10300	10200				26	52
83	14-Apr-02	84	11100	10120	10000	9960	10300	10200				25	51
84	15-Apr-02	85	11400	10500	10300	10700	10500	10400				25	52
85	16-Apr-02	86	11400	10650	10600	10700	10700	10600				25	52
86	17-Apr-02	87	11400	10780	10800	10800	10900	10600				26	53

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

Chamber Monitoring Results
Cumulative Exposure Record
Group III - 10000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
87	18-Apr-02	88	11100	10060	10100	9930	10100	10100	0.8636	2.104	6.90E-03	25	51
88	19-Apr-02	89	11100	10280	10300	10300	10300	10200				25	54
89	20-Apr-02	90	11200	10100	10000	10100	10200	10100				26	48
90	21-Apr-02	91	11400	10200	9210	10600	10500	10500				25	38
91	22-Apr-02	92	11300	10250	10300	10300	10300	10100				25	42
92	23-Apr-02	93	11100	10080	10100	10100	10100	10000				24	33
93	24-Apr-02	94	10900	10110	10300	10200	10000	9930				25	32
94	25-Apr-02	95	11000	10060	10100	10200	10000	9930	1.883	2.719	2.82E-03	25	38
95	26-Apr-02	96	11000	10020	10000	10100	10000	9960				24	36
96	27-Apr-02	97	11100	10010	10000	9440	10300	10300				24	35
97	28-Apr-02	98	11000	10130	10100	10000	10300	10100				25	44
98	29-Apr-02	99	11300	9960	9900	9440	10300	10200				25	38
99	30-Apr-02	100	11100	10100	10200	10000	10100	10100				25	36
100	1-May-02	101	11200	10300	10200	10400	10300	10300				25	40
101	2-May-02	102	11100	10300	10600	10300	10100	10200	1.636	2.271	3.83E-03	26	45
102	3-May-02	103	11300	10530	10600	10400	10600	10500				25	36
103	4-May-02	104	11200	10530	10400	10600	10700	10400				25	38
104	5-May-02	105	10700	9775	9900	10000	10300	8900				25	39
105	6-May-02	106	11000	10200	10000	10100	10400	10300				26	45
106	7-May-02	107	11000	10080	10200	10100	10100	9900				25	46
107	8-May-02	108	11000	10050	10000	10000	10100	10100				23	47
108	9-May-02	109	10700	9950	10000	9770	10100	9930	1.133	1.510	1.59E-03	24	45

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

Chamber Monitoring Results
Cumulative Exposure Record
Group III - 10000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
109	10-May-02	110	11100	10170	9960	10000	10300	10400				23	49
110	11-May-02	111	11300	10110	9930	10200	10100	10200				24	37
111	12-May-02	112	11000	9993	10000	9770	10100	10100				24	48
112	13-May-02	113	11400	9890	9960	10000	9830	9770				24	49
113	14-May-02	114	11000	10060	10300	9830	10000	10100				23	41
114	15-May-02	115	11400	10530	10700	10700	10400	10300				23	39
115	16-May-02	116	10900	10020	10000	10100	9960	10000	7.494	2.041	8.57E-03	23	41
116	17-May-02	117	11300	9983	9960	9770	10100	10100				23	49
117	18-May-02	118	11800	9585	9500	9310	9600	9930				23	44
118	19-May-02	119	11800	10750	10400	11100	10900	10600				23	40
119	20-May-02	120	11100	10110	10000	10400	9930	10100				23	40
120	21-May-02	121	11000	10000	9600	10100	10100	10200				23	40
121	22-May-02	122	11100	10070	9960	9930	10100	10300				22	39
122	23-May-02	123	11100	10050	9600	10300	10200	10100	1.092	1.800	2.00E-03	22	38
123	24-May-02	124	10600	10010	10200	9860	10000	9960				22	46
124	25-May-02	125	11700	10370	10500	9960	10500	10500				22	41
125	26-May-02	126	10900	10150	10200	10100	10200	10100				22	49
126	27-May-02	127	11300	10110	9530	10500	10300	10100				22	47
127	28-May-02	128	10900	10200	10400	10200	10000	10200				22	49
128	29-May-02	129	10800	10180	10300	10100	10100	10200				22	50
129	30-May-02	130	10800	10150	10300	10100	10000	10200	0.9283	2.216	5.23E-03	22	47
		Mean	**10807**			**10130**			**2.318**	**2.241**	**4.44E-03**	**24.7**	**43.0**
		S.D.	**391**			**320**			**2.040**	**0.466**	**2.33E-03**	**1.1**	**5.0**

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

Chamber Monitoring Results
Cumulative Exposure Record
Group IV -20000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
0	21-Jan-02	1	19300	20350	20900	20800	20100	19600				25	32
1	22-Jan-02	2	19200	20250	19900	20700	20300	20100				26	42
2	23-Jan-02	3	19000	20250	20200	20300	20000	20500				26	45
3	24-Jan-02	4	18400	19830	18400	20100	20500	20300	6.373	2.481	5.80E-03	25	39
4	25-Jan-02	5	18700	20750	21000	20800	21100	20100				25	40
5	26-Jan-02	6	19200	21430	22200	20900	20700	21900				25	44
6	27-Jan-02	7	18600	20400	20200	20600	21100	19700				25	44
7	28-Jan-02	8	19000	19450	18600	19100	20600	19500				24	38
8	29-Jan-02	9	19000	20230	20600	20300	19900	20100				25	39
9	30-Jan-02	10	19000	19780	20000	20100	19100	19900				25	53
10	31-Jan-02	11	18800	20230	20100	20800	20300	19700	1.088	2.129	5.44E-03	24	44
11	1-Feb-02	12	18400	20700	21900	21500	20600	18800				24	46
12	2-Feb-02	13	19700	21600	20500	22100	22100	21700				24	45
13	3-Feb-02	14	19600	21450	23500	21200	21000	20100				23	38
14	4-Feb-02	15	19100	20800	20500	21000	20500	21200				24	39
15	5-Feb-02	16	17700	19450	20500	19800	20800	16700				24	44
16	6-Feb-02	17	18000	20200	19800	20500	20100	20400				24	43
17	7-Feb-02	18	18800	20180	20800	20000	19800	20100	0.9162	1.926	3.43E-03	24	58
18	8-Feb-02	19	18100	20130	20600	20500	19500	19900				24	42
19	9-Feb-02	20	19300	20580	21000	20500	20700	20100				24	39
20	10-Feb-02	21	19000	20200	20100	20000	20200	20500				24	44

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

Chamber Monitoring Results
Cumulative Exposure Record
Group IV -20000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
21	11-Feb-02	22	19200	20530	21000	20600	19700	20800				24	36
22	12-Feb-02	23	19500	20200	20600	20100	20000	20100				25	43
23	13-Feb-02	24	18500	20150	20900	19900	20000	19800				25	41
24	14-Feb-02	25	18600	20450	20500	20000	20900	20400	1.143	1.458	1.18E-03	25	41
25	15-Feb-02	26	17900	20230	19900	20700	20400	19900				26	46
26	16-Feb-02	27	19100	20580	19800	20900	21500	20100				26	43
27	17-Feb-02	28	19400	20700	17900	21200	22000	21700				26	39
28	18-Feb-02	29	19700	20850	20600	21500	20900	20400				25	39
29	19-Feb-02	30	19500	20550	20900	19900	20500	20900				25	39
30	20-Feb-02	31	19200	20100	20100	20000	20500	19800				25	40
31	21-Feb-02	32	18300	20100	19500	20400	20500	20000	0.8888	2.122	8.15E-03	25	46
32	22-Feb-02	33	21000	19850	19200	19200	19500	21500				25	40
33	23-Feb-02	34	20000	21600	21500	22300	21300	21300				25	43
34	24-Feb-02	35	20400	21100	22600	20600	20400	20800				25	42
35	25-Feb-02	36	18800	20050	20100	20500	19200	20400				26	40
36	26-Feb-02	37	18800	20030	19300	20900	20000	19900				25	44
37	27-Feb-02	38	18700	20050	20200	20100	20400	19500				25	44
38	28-Feb-02	39	18900	19800	19200	20000	20100	19900	3.826	2.21	2.07E-03	25	41
39	1-Mar-02	40	18900	19630	19400	19300	20100	19700				25	40
40	2-Mar-02	41	18700	20280	20000	21200	20000	19900				25	45
41	3-Mar-02	42	19700	21050	21100	19600	21700	21800				25	52
42	4-Mar-02	43	18500	20050	19300	20400	20000	20500				25	42

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

Chamber Monitoring Results
Cumulative Exposure Record
Group IV -20000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Mean Humidity (%)
43	5-Mar-02	44	19200	21000	21100	21200	21000	20700				25	41
44	6-Mar-02	45	19100	20630	20800	20200	20700	20800				25	42
45	7-Mar-02	46	19100	20700	20600	21000	20500	20700	1.194	2.372	4.08E-03	25	40
46	8-Mar-02	47	19900	21430	22200	21800	20700	21000				25	44
47	9-Mar-02	48	18400	19950	17000	20900	21100	20800				25	49
48	10-Mar-02	49	18500	20830	20900	21000	20300	21100				25	42
49	11-Mar-02	50	18600	21700	21500	21700	21800	21800				25	41
50	12-Mar-02	51	18700	21680	20200	22200	22500	21800				26	43
51	13-Mar-02	52	18400	19930	20100	19500	20100	20000				25	46
52	14-Mar-02	53	18300	21300	20200	21500	21700	21800	0.8008	1.674	6.52E-03	25	46
53	15-Mar-02	54	18200	21130	21300	21600	20700	20900				25	47
54	16-Mar-02	55	19000	21550	22700	22400	20700	20400				25	52
55	17-Mar-02	56	19000	21000	21000	21100	20400	21500				25	45
56	18-Mar-02	57	19200	21150	20400	21100	22000	21100				25	44
57	19-Mar-02	58	18700	20300	20200	20000	20500	20500				25	40
58	20-Mar-02	59	19000	20750	20500	20600	21000	20900				25	44
59	21-Mar-02	60	18900	22500	21800	22500	22000	23700	0.7555	1.504	3.41E-03	25	41
60	22-Mar-02	61	19000	21380	20900	21800	21500	21300				25	40
61	23-Mar-02	62	19000	21200	21500	21400	20500	21400				25	39
62	24-Mar-02	63	19300	21350	20700	20500	21700	22500				25	34
63	25-Mar-02	64	18700	21750	20100	22800	22200	21900				25	38
64	26-Mar-02	65	19000	21880	21800	22200	22200	21300				24	42

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

Chamber Monitoring Results
Cumulative Exposure Record
Group IV -20000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment Mean: Temperature (°C)	Humidity (%)
65	27-Mar-02	66	19000	21950	21200	22200	22000	22400				25	42
66	28-Mar-02	67	19300	20300	19300	21100	20400	20400	1.153	1.618	1.87E-03	25	41
67	29-Mar-02	68	19600	20350	19700	20600	20500	20600				25	44
68	30-Mar-02	69	20900	20350	19000	20300	21300	20800				25	49
69	31-Mar-02	70	19300	19830	19000	20400	20000	19900				25	43
70	1-Apr-02	71	18800	19730	19100	20200	19700	19900				25	43
71	2-Apr-02	72	19100	19430	19700	19300	19300	19400				25	37
72	3-Apr-02	73	19500	20100	19600	20800	20000	20000				25	49
73	4-Apr-02	74	19900	19450	18000	18800	20800	20200	1.503	1.769	1.12E-03	25	35
74	5-Apr-02	75	20100	20050	20000	20400	20000	19800				25	35
75	6-Apr-02	76	19700	20630	20900	21900	20200	19500				25	36
76	7-Apr-02	77	20800	20050	18600	20800	21100	19700				25	40
77	8-Apr-02	78	19800	20330	20100	20000	20100	21100				25	43
78	9-Apr-02	79	19800	20330	20000	20100	20400	20800				25	48
79	10-Apr-02	80	19400	20230	19500	19700	20600	21100				25	43
80	11-Apr-02	81	19100	20430	20600	20300	20200	20600	3.706	3.162	6.70E-03	25	42
81	12-Apr-02	82	19600	21230	21500	21400	21000	21000				25	47
82	13-Apr-02	83	19300	20950	21100	20800	21100	20800				25	54
83	14-Apr-02	84	19700	20080	20400	19700	20200	20000				25	50
84	15-Apr-02	85	19400	20180	19700	20800	20100	20100				26	53
85	16-Apr-02	86	21800	20450	20300	20100	21100	20300				25	52
86	17-Apr-02	87	19500	20850	20300	21000	21100	21000				26	52

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

Chamber Monitoring Results
Cumulative Exposure Record
Group IV -20000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Humidity (%)
87	18-Apr-02	88	19800	20950	20400	21300	21400	20700	0.8816	2.015	5.53E-03	25	53
88	19-Apr-02	89	19800	21400	20900	23000	20600	21100				26	53
89	20-Apr-02	90	18900	19950	19800	19900	20100	20000				26	49
90	21-Apr-02	91	19800	19400	15600	22300	21000	18700				25	37
91	22-Apr-02	92	19900	19700	19700	19900	19500	19700				25	41
92	23-Apr-02	93	20100	19830	19300	20100	19600	20300				25	32
93	24-Apr-02	94	20300	19730	19500	19700	19700	20000				24	32
94	25-Apr-02	95	20300	20230	20300	21000	19700	19900	1.197	1.585	1.95E-03	24	39
95	26-Apr-02	96	21000	18980	19500	18500	19000	18900				24	36
96	27-Apr-02	97	20900	19950	20300	19900	19700	19900				24	35
97	28-Apr-02	98	20100	19980	21000	19800	19300	19800				25	43
98	29-Apr-02	99	20700	19780	19700	19500	20800	19100				25	38
99	30-Apr-02	100	20200	20500	20800	20600	20700	19900				25	36
100	1-May-02	101	19700	19630	18800	20900	19200	19600				25	40
101	2-May-02	102	20100	19730	20100	20000	19600	19200	1.131	2.032	2.74E-03	26	45
102	3-May-02	103	20600	19200	18900	19300	19700	18900				25	36
103	4-May-02	104	20600	20600	20800	21200	19800	20600				26	40
104	5-May-02	105	19700	18550	18300	18000	19500	18400				25	39
105	6-May-02	106	19300	20750	21500	20400	20600	20500				26	45
106	7-May-02	107	20000	20050	22300	20800	17100	20000				25	46
107	8-May-02	108	19500	19680	19300	19300	19700	20400				24	46
108	9-May-02	109	20600	20200	18000	20800	19400	22600	1.170	1.584	1.53E-03	24	44

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

Chamber Monitoring Results
Cumulative Exposure Record
Group IV -20000 mg/m^3

Day	Date	Exposure Number	Nominal (mg/m^3)	Analytical Chamber Concentration: Mean (mg/m^3)	Individual (mg/m^3)				Particle Size Determinations: MMAD (µm)	GSD	TMC (mg/m^3)	Chamber Environment: Mean Temperature (°C)	Humidity (%)
109	10-May-02	110	19100	19650	19800	19500	20000	19300				24	48
110	11-May-02	111	19500	19780	19300	19700	19700	20400				24	35
111	12-May-02	112	19900	19200	17800	18900	19800	20300				24	47
112	13-May-02	113	20500	18980	18200	19600	19300	18800				24	49
113	14-May-02	114	20600	19950	20400	20200	19300	19900				24	42
114	15-May-02	115	22900	19780	17500	17900	22300	21400				24	39
115	16-May-02	116	19300	18750	18900	18400	18600	19100	14.57	2.061	1.98E-02	24	41
116	17-May-02	117	20600	19200	19500	19500	18900	18900				23	48
117	18-May-02	118	22400	18750	16400	18200	17800	22600				23	44
118	19-May-02	119	21500	20350	20600	20000	19800	21000				23	40
119	20-May-02	120	19900	19800	19700	19100	20500	19900				23	40
120	21-May-02	121	19900	20350	21000	20400	20100	19900				23	40
121	22-May-02	122	20200	19280	19300	18900	18900	20000				22	39
122	23-May-02	123	21000	19050	19700	18000	18800	19700	3.800	2.577	5.01E-03	22	38
123	24-May-02	124	20500	19180	18300	19300	20200	18900				22	45
124	25-May-02	125	22700	19400	18200	18300	20400	20700				22	39
125	26-May-02	126	22000	19630	18300	18500	20800	20900				22	48
		Mean	**19525**		**20300**				**2.561**	**2.016**	**4.80E-03**	**24.7**	**42.6**
		S.D.	**946**		**1042**				**3.368**	**0.442**	**4.30E-03**	**0.9**	**4.9**

	Inhalation Report	Appendix A

Table III
Equipment List

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

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

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

Compound Generator
Counter-Current Volatilization Unit, coiled glass rod insert with nichrome wire (Crown Glass Co., Inc.).
Flowmeter with built-in valve, size 0-65 mm, tube #'s 6G02R3, 6G03R3, 6G04R3 (Key Instruments).
Variable Autotransformer, Type 3PN 1010 (Staco Energy Products Company).
Variable Autotransformer, Type PL 312 (Glas-Col.)
T° Sentry Digital Alarm Module, Model 110 (Hampshire Controls Corp.).
Balston® Microfibre™ Disposable Filter Units, No. L9933-05 (Grade DQ).
Quick-disconnect fitting with toggle valve (Rego®).

Compound Reservoir
5-gallon cylinder (Manchester Tank).

Balance
Mettler PM30000K (Mettler Instrument Corporation).
Pelooze, Model No. 4010.

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Table III
Equipment List

Flowmeters
Flowmeter, size 0-4, 0-5, 0-10, 0-20, 0-30, 0-40 Lpm (Dwyer® Instruments Inc.).
Top Trak™ Mass Flow Meter size 0-1 Lpm, Model 821-1 (Sierra Instruments), calibrated prestudy with a Gilibrator®Bubble Generator, P/N D800286, S/N 569-S, flow cell assembly P/N D800268, BD #1860).

Pressure/Vacuum Gauges
Ashcroft® backpressure gauge, P/N 733-47.
Matheson® backpressure gauge, P/N 63-3161.
Norgreen backpressure gauge, P/N 9892K23.
Dwyer® Magnehelic® gauge (Dwyer® Instruments Inc.).
Union Carbide vacuum gauge (SG 6310)
Union Carbide Backpressure gauge (P/N SG 8383)

Regulator
Norgreen, P/N 9892K23.

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

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

Filter
Glass microfibre filter paper, Type GF/F, Size 2.5 cm (Whatman®).

Filter Holder
Open-faced filter holder (Gelman Sciences Inc.).
Air Analyzer

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Table III
Equipment List

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

Particle Sizer/Analyzer
TSI Aerodynamic Particle Sizer, Model 331001 and a DELL computer, Model 4861P/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^3)	Ratio to H-3
II (2000 mg/m^3)	11-January-02	H-3	2000	1.00
		H-1	2080	1.04
		H-2	1900	0.95
		H-9	2260	1.13
		H-3	1960	1.00
		H-7	2680	1.37
	12-January-02	H-3	2000	1.00
		H-7	2090	1.05
		H-8	2030	1.02
		H-3	2040	1.00
		H-14	2130	1.04
		H-13	1880	0.92
		H-12	2040	1.00
		H-11	1910	0.94
III (10000 mg/m^3)	13-January-02	H-3	10400	1.00
		H-1	10300	0.99
		H-2	10200	0.98
		H-9	10200	0.98
		H-3	10400	1.00
		H-7	10300	0.99
		H-8	10200	0.98
		H-11	10100	0.97
		H-3	10900	1.00
		H-13	11000	1.01
		H-12	10900	1.00
		H-14	10700	0.98

	Inhalation Report	Appendix A

Table IV
Chamber Distribution Records

Group (target)	Date	Port	IR Conc (mg/m^3)	Ratio to H-3
IV (20000 mg/m^3)	14-January-02	H-3	20600	1.00
		H-1	20100	0.98
		H-2	20500	1.00
		H-3	20000	1.00
		H-9	20700	1.04
		H-7	19800	0.99
		H-3	19700	1.00
		H-8	20500	1.04
		H-13	19800	1.01
		H-3	20500	1.00
		H-14	21700	1.06
		H-11	20900	1.02
		H-12	21200	1.03

	Inhalation Report	Appendix A

Table V
Miran Calibration

The following calibration data was used for exposures or trials between 15 November 2001 and 11 February 2002.

Methodology for Gasoline Ethanol Vapor Condensate

Settings: The instrument settings for the Miran 2225 Unit are summarized below:

wavelength, microns	10.3
pathlength, dial setting	5.72
slit width, mm	1
range, absorbance	1A
response, seconds	1
gain	High
chart speed, cm/min	1
chart volts	1

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

Injection Volume (µL)	Calculated Concentration[1] (mg/m^3)	Absorbance Operator 1 (volts)	Absorbance Operator 2 (volts)	Absorbance Average (volts)
9.0	1053	0.0433	0.0363	0.0398
17	1989	0.0766	0.0743	0.0755
86	10064	0.390	0.339	0.365
175	20479	0.675	0.695	0.685
215	25160	0.810	0.858	0.834

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

	Inhalation Report	Appendix A

Table V
Miran Calibration

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

Injection Volume (µL)	Calculated Concentration (mg/m3)	Expected Absorbance Reading (volts)	Acceptable Absorbance Range (volts)
17	1989	0.0755	0.0642 – 0.0868
86	10064	0.365	0.310 – 0.420
175	20479	0.685	0.582 – 0.868

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 Ethanol Vapor Condensate

	Inhalation Report	Appendix A

Table V
Miran Calibration

The following calibration data was used for exposures between 12 February 2002 and 27 March 2002. The calibration was revised based on concern about the nominal:IR ratio for days previous to 7 February 2002.

Methodology for Gasoline Ethanol Vapor Condensate

Settings: The instrument settings for the Miran 2225 Unit[1] are summarized below:

wavelength, microns	10.3
pathlength, dial setting	5.72
slit width, mm	1
range, absorbance	1A
response, seconds	1
gain	High
chart speed, cm/min	1
chart volts	1

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

		Absorbance				
		15 November 2001		7 February 2002		
Injection Volume (µL)	Calculated Concentration[2] (mg/m3)	Operator 1 (volts)	Operator 2 (volts)	Operator 3 (volts)	Operator 4 (volts)	Average (volts)
9.0	1053	0.0433	0.0363	0.0400	0.0435	0.0408
17	1989	0.0766	0.0743	0.0787	0.0777	0.0768
86	10064	0.390	0.339	0.366	0.369	0.366
175	20479	0.675	0.695	0.675	0.679	0.681
215	25160	0.810	0.858	0.830	0.830	0.832

[1]Miran 02 was used on 11 and 12 March 2002 at the same settings and utilized the same calibration as Miran 2225.

[2]Calculated Conc. (mg/m^3) = $\frac{\text{Injection volume (µL) x Density (mg/µL) x 1000 L/m}^3}{\text{5.64 L}}$

	Inhalation Report	Appendix A

Table V
Miran Calibration

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

Injection Volume (µL)	Calculated Concentration (mg/m3)	Expected Absorbance Reading (volts)	Acceptable Absorbance Range (volts)
17	1989	0.0768	0.0653 – 0.0883
86	10064	0.366	0.311 – 0.421
175	20479	0.681	0.579 – 0.783

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

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Table V
Miran Calibration

Calibration Curve for Gasoline Ethanol Vapor Condensate

	Inhalation Report	Appendix A

Table V
Miran Calibration

The following calibration data was used for exposures between 28 March 2002 and exposure termination. The Miran 2225 was replaced with Miran 06 for this calibration because of concern about the nominal:IR ratio for days previous to 21 March 2002.

Methodology for Gasoline Ethanol Vapor Condensate

Settings: The instrument settings for the Miran 06 Unit are summarized below:

wavelength, microns	10.3
pathlength, dial setting	5.17
slit width, mm	1
range, absorbance	1A
response, seconds	1
gain	High
chart speed, cm/min	1
chart volts	1

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

Injection Volume (µL)	Calculated Concentration[1] (mg/m^3)	Absorbance Operator 1 (volts)	Operator 2 (volts)	Average (volts)
9.0	1053	0.0375	0.0393	0.0384
17	1989	0.0628	0.0700	0.0664
86	10064	0.336	0.322	0.329
175	20479	0.622	0.622	0.622
215	25160	0.753	0.747	0.750

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

	Inhalation Report	Appendix A

Table V
Miran Calibration

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

Injection Volume (µL)	Calculated Concentration (mg/m3)	Expected Absorbance Reading (volts)	Acceptable Absorbance Range (volts)
17	1989	0.0644	0.0564 – 0.0764
86	10064	0.329	0.2797 – 0.378
175	20479	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.

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Table V
Miran Calibration

Calibration Curve for Gasoline Ethanol Vapor Condensate

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Table VI
Testing Room and Chambers Environmental Monitoring

Interval	Location	Test Substance (mg/m^3)	Light (Ft Candles)	Noise (dB)	Oxygen (%)	Particle Sizing (mg/m^3)[a]
Pretest	Room 809	0	33	66.2	-	
	Group I Chamber	-	-	-	20	4.01×10^{-3}
	Group II Chamber	-	-	-	20	2.82×10^{-3}
	Group III Chamber	-	-	-	20	1.12×10^{-3}
	Group IV Chamber	-	-	-	20	1.30×10^{-3}
Week 0	Room 809	0	36.8	60.0	-	
	Group I Chamber	-	-	-	20	
	Group II Chamber	-	-	-	20	
	Group III Chamber	-	-	-	20	
	Group IV Chamber	-	-	-	20	
Week 9	Room 809	0	37.5	59.8	-	
	Group I Chamber	-	-	-	20	
	Group II Chamber	-	-	-	20	
	Group III Chamber	-	-	-	20	
	Group IV Chamber	-	-	-	20	
Week 17	Room 809	0	35.4	59.9	-	
	Group I Chamber	-	-	-	20	
	Group II Chamber	-	-	-	20	
	Group III Chamber	-	-	-	20	
	Group IV Chamber	-	-	-	20	

[a]Pretest results presented below. For Weeks 0, 9 and 17 results, see Chamber Monitoring Records (Table II).

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 where 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 where individually housed on five levels within the exposure chamber.

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STUDY TITLE

Analytical Report For:

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

AUTHOR

Yonggang Wang

REPORT DATE

13 March 2009

STUDY NUMBER

00-4203

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1. Summary

Samples of the test substance (Gasoline Ethanol Vapor Condensate) obtained from the generated atmosphere of the rat exposures 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 Ethanol Vapor Condensate from charcoal tubes with Carbon Disulfide (CS_2). The test substance's major components were then quantified (relative area percent) utilizing Gas Chromatography with a Flame Ionization Detection (FID).

2. Experimental Procedures

The analytical method (HLS-005-01) was validated by the Analytical Toxicology Support Department at HLS. Details of the analytical methods and their validation are maintained in the study files for Study No. 00-6127.

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 Ethanol Vapor Condensate were extracted from the charcoal tubes with Carbon Disulfide (CS_2). The extracted solutions were analyzed by Gas Chromatography equipped with a Supelco Petrocol™ DH 150 (150m x 0.25mm, 1.0 µm) column and Flame Ionization Detector (FID). PE Nelson Turbochrom installed on a personal computer was used for data collection and processing.

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Date of sample receipt and analysis is listed as follows:

Interval	Date of Exposures	Date Received	Date Analyzed
Pretest/Trial	16 Jan 02	16 Jan 02	16 -17 Jan 02
Exposure-2	23 Jan 02	06 Feb 02	08 - 09 Feb 02
Exposure-9	30 Jan 02	06 Feb 02	08 - 09 Feb 02
Exposure-16	06 Feb 02	06 Feb 02	13 -14 Feb 02
Exposure-22	13 Feb 02	13 Feb 02	13 - 14 Feb 02
Exposure-30	20 Feb 02	20 Feb 02	20 - 21 Feb 02
Exposure-37	27 Feb 02	27 Feb 02	27 - 28 Feb 02
Exposure-44	06 Mar 02	06 Mar 02	06 – 07 Mar 02
Exposure-51	13 Mar 02	13 Mar 02	13 - 14 Mar 02
Exposure-58	20 Mar 02	20 Mar 02	20 - 21 Mar 02
Exposure-65	27 Mar 02	27 Mar 02	27 - 28 Mar 02
Exposure-72	03 April 02	03 April 02	03 – 04 April 02
Exposure-79	10 April 02	10 April 02	10 - 11 April 02
Exposure-86	17 April 02	17 April 02	17 - 18 April 02
Exposure-93	24 April 02	24 April 02	24 – 25 April 02
Exposure-100	01 May 02	01 May 02	01 – 03 May 02
Exposure-107	08 May 02	08 May 02	08 - 09 May 02
Exposure-114	15 May 02	15 May 02	15 – 16 May 02
Exposure-121	22 May 02	22 May 02	22 –23 May 02
Exposure-128	29 May 02	29 May 02	29 – 30 May 02

3. Results and Discussion

During the pretest trials and exposures, Gasoline Ethanol Vapor Condensate obtained from the generated atmosphere of the rat exposures was analyzed to determine the area percent of the test substance's major components in the chamber. The results of the animal exposures indicate that the test substance was stable and the chamber atmosphere was consistent throughout the study. The results are presented in Tables I, II and III. Typical chromatograms of groups I, II, III and IV are presented in Figures I to IV. While all chromatograms are accurate graphical representations of the data, not all peaks can be clearly identified without zooming in on individual peaks.

Ethanol was corrected in Table II for the extraction efficiency of 126.49% obtained from spiked controls extracted in both carbon disulfide and carbon disulfide plus 1% 2-butanol (see 00-6127 for Ethanol Extraction Efficiency Evaluation data):

Corrected Area % for (Ethanol+ 3-Methyl-1-Butene) =
{Area % for (Ethanol+ 3-Methyl-1-Butene) - overall average for 3-methyl 1-butene} * correction factor for extraction efficiency + overall average for 3-methyl 1-butene

where: overall average for 3-methyl-1-butene = 0.44, from the Baseline Gasoline Study (00-6125).
Correction Factor for Ethanol Extraction Efficiency = 1.2649

Example: (See Table III-A, Sample 2001): 7.49% = (6.01% - 0.44) * 1.2649% + 0.44

A correction factor was used to calculate the "Corrected Sample Area %" values for the other components in Tables III-A to III-S based on the "ethanol + 3-methyl-1-butene" value to obtain the correct Total area %:

Example: The correction factor for all other Area % values for sample 2001 in Table III-A:
100% - [7.49 (corrected value for ethanol) - 6.01 (uncorrected value for ethanol)] = 98.52%

The "Corrected Sample Area %" was calculated as follows:

Example: The corrected Sample Area % for N-Butane in Sample 3018 =
uncorrected area % for N-Butane * [100% - (corrected value for ethanol - uncorrected value for ethanol)] / 100

= 11.26*(100-(8.37-6.71)/100 = 11.07

The "All Samples" column of Area % in the Summary of Chamber Components table (see Table II) is an average of all groups II, III and IV throughout the study.

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

	Area %									Corrected Sample Area %		
	Control	Spiked Control-1	TM Standard-1	Sample 101	Sample 201	Sample 301	Sample 401	Spiked Control-2	TM Standard-2	Sample 201	Sample 301	Sample 401
Compound	001-002	001-003	001-004	001-005	001-006	001-007	001-008	001-009	001-010	001-006	001-007	001-008
Isobutane	ND	2.06	1.94	ND	2.44	2.44	2.42	2.04	1.92	**2.40**	**2.40**	**2.38**
N-Butane	ND	10.98	10.39	ND	12.26	12.19	12.13	10.81	10.29	**12.07**	**12.00**	**11.93**
Ethanol + 3-Methyl-1-butene	ND	6.87	9.31	ND	6.37	6.42	6.50	6.75	9.34	**7.94**	**8.00**	**8.11**
Isopentane	ND	37.14	36.33	ND	38.13	37.85	37.76	37.35	36.32	**37.53**	**37.25**	**37.15**
N-Pentane	ND	8.05	7.77	ND	8.13	8.07	8.09	8.12	8.00	**8.00**	**7.94**	**7.96**
Trans-2-pentene	ND	2.37	2.37	ND	2.34	2.40	2.33	2.37	2.15	**2.30**	**2.36**	**2.29**
2,3-Dimethylbutane	ND	1.98	2.01	ND	1.95	1.89	1.98	2.02	1.97	**1.92**	**1.86**	**1.95**
2-Methylpentane	ND	6.24	6.12	ND	5.98	5.99	6.01	6.28	6.15	**5.89**	**5.90**	**5.91**
3-Methylpentane	ND	3.66	3.60	ND	3.50	3.51	3.52	3.69	3.61	**3.45**	**3.45**	**3.46**
N-hexane	ND	3.17	3.12	ND	3.00	3.00	3.03	3.18	3.11	**2.95**	**2.95**	**2.98**
Methylcyclopentane	ND	1.66	1.63	ND	1.57	1.57	1.58	1.67	1.64	**1.55**	**1.55**	**1.55**
2,4-Dimethylpentane	ND	1.46	1.42	ND	1.34	1.35	1.36	1.45	1.42	**1.32**	**1.33**	**1.34**
Benzene	<LOQ	2.24	2.26	<LOQ	2.14	2.15	2.17	2.25	2.26	**2.11**	**2.12**	**2.14**
2-Methylhexane	ND	1.61	1.57	ND	1.45	1.49	1.50	1.61	1.57	**1.43**	**1.47**	**1.48**
2,3-Dimethylpentane	ND	1.68	1.64	ND	1.53	1.56	1.57	1.67	1.62	**1.51**	**1.54**	**1.54**
3-Methylhexane	ND	1.89	1.83	ND	1.70	1.74	1.75	1.89	1.84	**1.67**	**1.71**	**1.72**
Isooctane	ND	2.16	2.07	ND	1.90	1.97	1.97	2.13	2.09	**1.87**	**1.94**	**1.94**
Toluene	ND	3.41	3.38	ND	2.99	3.09	3.11	3.37	3.38	**2.94**	**3.04**	**3.06**
Total	0.00	98.63	98.76	0.00	98.72	98.68	98.78	98.65	98.68	**98.85**	**98.81**	**98.89**

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.

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Table II. Summary of Chamber Components Confirmation Area Percent of Gasoline Ethanol Vapor Condensate (Exposures 2-128)

Compound	Area %								
	Spiked Control 1	TM Standard 1	Samples Group 1	Samples Group 2	Samples Group 3	Samples Group 4	All Samples[a]	Spiked Control 2	TM Standard-2
Isobutane	1.71	1.59	ND	1.86	1.99	1.99	1.99	1.67	1.55
N-Butane	9.65	9.18	ND	10.26	10.66	10.67	10.67	9.53	9.07
Ethanol + 3-Methyl-1-butene[b]	7.38	9.96	ND	7.92	7.88	8.02	7.95	7.43	10.01
Isopentane	36.87	35.79	ND	37.24	37.30	37.15	37.23	36.83	35.75
N-Pentane	8.22	7.98	ND	8.14	8.15	8.08	8.12	8.21	8.02
Trans-2-pentene	2.28	2.20	ND	2.32	2.25	2.28	2.27	2.25	2.16
2,3-Dimethylbutane	2.10	2.06	ND	2.04	1.98	2.00	1.99	2.13	2.06
2-Methylpentane	6.43	6.28	ND	6.21	6.15	6.13	6.14	6.46	6.30
3-Methylpentane	3.84	3.76	ND	3.71	3.67	3.65	3.66	3.86	3.77
N-hexane	3.35	3.28	ND	3.21	3.15	3.16	3.16	3.36	3.27
Methylcyclopentane	1.74	1.70	ND	1.68	1.65	1.64	1.65	1.75	1.71
2,4-Dimethylpentane	1.47	1.43	ND	1.41	1.38	1.36	1.37	1.47	1.45
Benzene	2.40	2.42	ND	2.32	2.37	2.36	2.37	2.41	2.43
2-Methylhexane	1.68	1.64	ND	1.59	1.56	1.57	1.57	1.70	1.65
2,3-Dimethylpentane	1.75	1.72	ND	1.65	1.62	1.62	1.62	1.76	1.72
3-Methylhexane	1.97	1.92	ND	1.85	1.82	1.82	1.82	1.98	1.94
Isooctane	2.24	2.18	ND	2.09	2.06	2.06	2.06	2.25	2.20
Toluene	3.56	3.59	ND	3.26	3.18	3.18	3.18	3.59	3.62
Total	98.64	98.68	0.00	98.76	98.82	98.74	98.82	98.64	98.68

ND = none detected. [a] Groups II, III and IV only. [b] Ethanol is corrected for the extraction efficiency of 126.49%.
Calculations were performed in Excel. Some values may vary due to rounding in Excel.

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Table III-A. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 2

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1001	Sample 2001	Sample 3001	Sample 4001	Spiked Control-2	TM Standard-2	Sample 2001	Sample 3001	Sample 4001
Compound	002-002	002-003	002-004	002-005	002-006	002-007	002-008	002-013	002-014	002-006	002-007	002-008
Isobutane	ND	2.08	1.90	ND	2.41	2.41	2.36	2.08	1.96	**2.37**	**2.37**	**2.32**
N-Butane	ND	10.97	10.35	ND	12.14	12.16	11.99	10.95	10.53	**11.96**	**11.98**	**11.80**
Ethanol + 3-Methyl-1-butene	ND	6.88	9.58	ND	6.01	6.12	6.42	7.03	9.58	**7.49**	**7.62**	**8.00**
Isopentane	ND	37.39	36.26	ND	38.20	38.10	37.86	37.39	36.39	**37.63**	**37.53**	**37.26**
N-Pentane	ND	8.18	7.94	ND	8.06	8.10	8.02	7.94	7.93	**7.94**	**7.98**	**7.89**
Trans-2-pentene	ND	2.29	2.21	ND	2.40	2.35	2.29	2.37	2.14	**2.36**	**2.31**	**2.25**
2,3-Dimethylbutane	ND	2.01	1.93	ND	1.91	1.99	1.92	2.06	1.99	**1.88**	**1.96**	**1.89**
2-Methylpentane	ND	6.21	6.08	ND	6.03	6.01	6.05	6.24	6.04	**5.94**	**5.92**	**5.95**
3-Methylpentane	ND	3.64	3.58	ND	3.53	3.52	3.55	3.65	3.55	**3.48**	**3.47**	**3.49**
N-hexane	ND	3.15	3.10	ND	3.02	3.04	3.05	3.14	3.07	**2.98**	**2.99**	**3.00**
Methylcyclopentane	ND	1.65	1.62	ND	1.58	1.58	1.59	1.65	1.61	**1.56**	**1.56**	**1.56**
2,4-Dimethylpentane	ND	1.43	1.41	ND	1.36	1.36	1.38	1.43	1.39	**1.34**	**1.34**	**1.36**
Benzene	ND	2.26	2.28	ND	2.17	2.18	2.19	2.26	2.27	**2.14**	**2.15**	**2.16**
2-Methylhexane	ND	1.58	1.55	ND	1.49	1.49	1.52	1.58	1.53	**1.47**	**1.47**	**1.50**
2,3-Dimethylpentane	ND	1.66	1.63	ND	1.57	1.57	1.58	1.65	1.60	**1.55**	**1.55**	**1.56**
3-Methylhexane	ND	1.86	1.82	ND	1.75	1.74	1.77	1.85	1.80	**1.72**	**1.71**	**1.74**
Isooctane	ND	2.11	2.06	ND	1.97	1.98	2.00	2.09	2.04	**1.94**	**1.95**	**1.97**
Toluene	ND	3.34	3.39	ND	3.08	3.07	3.15	3.33	3.34	**3.03**	**3.02**	**3.10**
Total	0.00	98.69	98.69	0.00	98.68	98.77	98.69	98.69	98.76	**98.78**	**98.88**	**98.80**

ND = none detected.

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Table III-B. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 9

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1002	Sample 2002	Sample 3002	Sample 4002	Spiked Control-2	TM Standard-2	Sample 2002	Sample 3002	Sample 4002
Compound	002-002	002-003	002-004	002-009	002-010	002-011	002-012	002-013	002-014	002-010	002-011	002-012
Isobutane	ND	2.08	1.90	ND	2.37	2.42	2.42	2.08	1.96	**2.34**	**2.38**	**2.38**
N-Butane	ND	10.97	10.35	ND	12.10	12.17	12.13	10.95	10.53	**11.94**	**11.98**	**11.94**
Ethanol + 3-Methyl-1-butene	ND	6.88	9.58	ND	5.32	6.34	6.31	7.03	9.58	**6.61**	**7.90**	**7.86**
Isopentane	ND	37.39	36.26	ND	38.31	37.85	37.89	37.39	36.39	**37.82**	**37.26**	**37.30**
N-Pentane	ND	8.18	7.94	ND	8.01	8.04	7.99	7.94	7.93	**7.91**	**7.91**	**7.87**
Trans-2-pentene	ND	2.29	2.21	ND	2.41	2.28	2.36	2.37	2.14	**2.38**	**2.24**	**2.32**
2,3-Dimethylbutane	ND	2.01	1.93	ND	1.95	1.97	1.95	2.06	1.99	**1.92**	**1.94**	**1.92**
2-Methylpentane	ND	6.21	6.08	ND	6.12	6.04	6.01	6.24	6.04	**6.04**	**5.95**	**5.92**
3-Methylpentane	ND	3.64	3.58	ND	3.59	3.51	3.52	3.65	3.55	**3.54**	**3.46**	**3.47**
N-hexane	ND	3.15	3.10	ND	3.10	3.03	3.04	3.14	3.07	**3.06**	**2.98**	**2.99**
Methylcyclopentane	ND	1.65	1.62	ND	1.61	1.58	1.58	1.65	1.61	**1.59**	**1.56**	**1.56**
2,4-Dimethylpentane	ND	1.43	1.41	ND	1.40	1.37	1.37	1.43	1.39	**1.38**	**1.35**	**1.35**
Benzene	ND	2.26	2.28	ND	2.20	2.17	2.18	2.26	2.27	**2.17**	**2.14**	**2.15**
2-Methylhexane	ND	1.58	1.55	ND	1.53	1.50	1.50	1.58	1.53	**1.51**	**1.48**	**1.48**
2,3-Dimethylpentane	ND	1.66	1.63	ND	1.61	1.57	1.57	1.65	1.60	**1.59**	**1.55**	**1.55**
3-Methylhexane	ND	1.86	1.82	ND	1.80	1.75	1.76	1.85	1.80	**1.78**	**1.72**	**1.73**
Isooctane	ND	2.11	2.06	ND	2.04	1.99	1.99	2.09	2.04	**2.01**	**1.96**	**1.96**
Toluene	ND	3.34	3.39	ND	3.21	3.13	3.17	3.33	3.34	**3.17**	**3.08**	**3.12**
Total	0.00	98.69	98.69	0.00	98.68	98.71	98.74	98.69	98.76	**98.76**	**98.84**	**98.87**

ND = none detected.

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Table III-C. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 16

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1003	Sample 2003	Sample 3003	Sample 4003	Spiked Control-2	TM Standard-2	Sample 2003	Sample 3003	Sample 4003
Compound	003-002	003-003	003-004	003-005	003-006	003-007	003-008	003-013	003-014	003-006	003-007	003-008
Isobutane	ND	2.05	1.95	ND	2.35	2.34	2.41	2.04	1.76	**2.33**	**2.32**	**2.37**
N-Butane	ND	10.81	10.33	ND	12.09	12.07	12.10	10.78	10.01	**11.98**	**11.96**	**11.91**
Ethanol + 3-Methyl-1-butene	ND	7.13	9.76	ND	3.81	3.82	6.46	7.07	9.70	**4.70**	**4.72**	**8.05**
Isopentane	ND	37.21	36.11	ND	38.95	38.97	37.91	37.36	36.10	**38.60**	**38.62**	**37.31**
N-Pentane	ND	8.11	7.92	ND	8.52	8.29	7.99	8.23	7.83	**8.44**	**8.22**	**7.86**
Trans-2-pentene	ND	2.27	2.15	ND	2.25	2.43	2.43	2.12	2.28	**2.23**	**2.41**	**2.39**
2,3-Dimethylbutane	ND	1.97	1.94	ND	2.02	2.06	1.98	2.06	2.03	**2.00**	**2.04**	**1.95**
2-Methylpentane	ND	6.25	6.09	ND	6.24	6.18	5.87	6.25	6.18	**6.18**	**6.12**	**5.78**
3-Methylpentane	ND	3.67	3.58	ND	3.67	3.67	3.52	3.67	3.64	**3.64**	**3.64**	**3.46**
N-hexane	ND	3.17	3.11	ND	3.13	3.17	3.05	3.18	3.15	**3.10**	**3.14**	**3.00**
Methylcyclopentane	ND	1.66	1.62	ND	1.65	1.65	1.58	1.66	1.65	**1.64**	**1.64**	**1.55**
2,4-Dimethylpentane	ND	1.45	1.40	ND	1.43	1.43	1.32	1.44	1.43	**1.42**	**1.42**	**1.30**
Benzene	ND	2.27	2.29	ND	2.25	2.25	2.17	2.26	2.31	**2.23**	**2.23**	**2.14**
2-Methylhexane	ND	1.60	1.56	ND	1.57	1.57	1.50	1.60	1.59	**1.56**	**1.56**	**1.48**
2,3-Dimethylpentane	ND	1.67	1.64	ND	1.59	1.64	1.57	1.67	1.66	**1.58**	**1.63**	**1.55**
3-Methylhexane	ND	1.87	1.78	ND	1.84	1.84	1.76	1.87	1.86	**1.82**	**1.82**	**1.73**
Isooctane	ND	2.13	2.06	ND	2.08	2.08	1.99	2.13	2.11	**2.06**	**2.06**	**1.96**
Toluene	ND	3.37	3.40	ND	3.23	3.24	3.15	3.35	3.45	**3.20**	**3.21**	**3.10**
Total	0.00	98.66	98.69	0.00	98.67	98.70	98.76	98.74	98.74	**98.71**	**98.76**	**98.89**

ND = none detected.

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Table III-D. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 22

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1004	Sample 2004	Sample 3004	Sample 4004	Spiked Control-2	TM Standard-2	Sample 2004	Sample 3004	Sample 4004
Compound	003-002	003-003	003-004	003-009	003-010	003-011	003-012	003-013	003-014	003-010	003-011	003-012
Isobutane	ND	2.05	1.95	ND	2.30	2.43	2.44	2.04	1.76	**2.26**	**2.39**	**2.40**
N-Butane	ND	10.81	10.33	ND	11.79	12.13	12.10	10.78	10.01	**11.61**	**11.94**	**11.92**
Ethanol + 3-Methyl-1-butene	ND	7.13	9.76	ND	6.29	6.34	6.07	7.07	9.70	**7.84**	**7.90**	**7.56**
Isopentane	ND	37.21	36.11	ND	38.22	37.97	38.07	37.36	36.10	**37.63**	**37.38**	**37.50**
N-Pentane	ND	8.11	7.92	ND	8.00	8.20	8.18	8.23	7.83	**7.88**	**8.07**	**8.06**
Trans-2-pentene	ND	2.27	2.15	ND	2.53	2.27	2.30	2.12	2.28	**2.49**	**2.23**	**2.27**
2,3-Dimethylbutane	ND	1.97	1.94	ND	2.03	1.95	1.99	2.06	2.03	**2.00**	**1.92**	**1.96**
2-Methylpentane	ND	6.25	6.09	ND	6.11	6.01	6.04	6.25	6.18	**6.02**	**5.92**	**5.95**
3-Methylpentane	ND	3.67	3.58	ND	3.57	3.52	3.53	3.67	3.64	**3.51**	**3.47**	**3.48**
N-hexane	ND	3.17	3.11	ND	3.04	3.02	3.04	3.18	3.15	**2.99**	**2.97**	**2.99**
Methylcyclopentane	ND	1.66	1.62	ND	1.61	1.58	1.58	1.66	1.65	**1.59**	**1.56**	**1.56**
2,4-Dimethylpentane	ND	1.45	1.40	ND	1.36	1.36	1.36	1.44	1.43	**1.34**	**1.34**	**1.34**
Benzene	ND	2.27	2.29	ND	2.17	2.16	2.16	2.26	2.31	**2.14**	**2.13**	**2.13**
2-Methylhexane	ND	1.60	1.56	ND	1.48	1.48	1.49	1.60	1.59	**1.46**	**1.46**	**1.47**
2,3-Dimethylpentane	ND	1.67	1.64	ND	1.55	1.56	1.57	1.67	1.66	**1.53**	**1.54**	**1.55**
3-Methylhexane	ND	1.87	1.78	ND	1.74	1.73	1.76	1.87	1.86	**1.71**	**1.70**	**1.73**
Isooctane	ND	2.13	2.06	ND	1.94	1.95	1.98	2.13	2.11	**1.91**	**1.92**	**1.95**
Toluene	ND	3.37	3.40	ND	3.00	3.06	3.10	3.35	3.45	**2.95**	**3.01**	**3.05**
Total	0.00	98.66	98.69	0.00	98.73	98.72	98.76	98.74	98.74	**98.86**	**98.85**	**98.87**

ND = none detected.

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Table III-E. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 30

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1005	Sample 2005	Sample 3005	Sample 4005	Spiked Control-2	TM Standard-2	Sample 2005	Sample 3005	Sample 4005
Compound	004-002	004-003	004-004	004-005	004-006	004-007	004-008	004-009	004-010	004-006	004-007	004-008
Isobutane	ND	2.13	2.00	ND	2.19	2.08	2.41	2.09	1.93	**2.16**	**2.05**	**2.37**
N-Butane	ND	11.12	10.60	ND	11.41	11.06	12.10	11.02	10.44	**11.23**	**10.89**	**11.92**
Ethanol + 3-Methyl-1-butene	ND	6.87	9.41	ND	6.26	6.36	6.18	7.18	9.26	**7.80**	**7.93**	**7.70**
Isopentane	ND	37.49	36.41	ND	37.92	37.92	38.08	37.31	36.39	**37.34**	**37.32**	**37.50**
N-Pentane	ND	8.24	8.00	ND	8.41	8.34	8.26	8.25	8.27	**8.28**	**8.21**	**8.13**
Trans-2-pentene	ND	2.00	1.85	ND	2.03	2.13	2.14	2.17	1.91	**2.00**	**2.10**	**2.11**
2,3-Dimethylbutane	ND	2.05	2.01	ND	2.02	2.05	1.93	2.05	1.95	**1.99**	**2.02**	**1.90**
2-Methylpentane	ND	6.22	6.10	ND	6.20	6.29	6.06	6.21	6.14	**6.10**	**6.19**	**5.97**
3-Methylpentane	ND	3.65	3.58	ND	3.63	3.69	3.54	3.64	3.61	**3.57**	**3.63**	**3.49**
N-hexane	ND	3.16	3.09	ND	3.12	3.17	3.05	3.15	3.11	**3.07**	**3.12**	**3.00**
Methylcyclopentane	ND	1.65	1.62	ND	1.63	1.65	1.58	1.64	1.63	**1.60**	**1.62**	**1.56**
2,4-Dimethylpentane	ND	1.41	1.40	ND	1.41	1.41	1.36	1.40	1.39	**1.39**	**1.39**	**1.34**
Benzene	ND	2.27	2.29	ND	2.22	2.25	2.16	2.25	2.31	**2.19**	**2.21**	**2.13**
2-Methylhexane	ND	1.58	1.55	ND	1.55	1.57	1.50	1.57	1.55	**1.53**	**1.55**	**1.48**
2,3-Dimethylpentane	ND	1.65	1.63	ND	1.63	1.64	1.57	1.64	1.62	**1.60**	**1.61**	**1.55**
3-Methylhexane	ND	1.84	1.81	ND	1.82	1.83	1.74	1.83	1.81	**1.79**	**1.80**	**1.71**
Isooctane	ND	2.09	2.05	ND	2.05	2.06	1.97	2.07	2.05	**2.02**	**2.03**	**1.94**
Toluene	ND	3.30	3.35	ND	3.22	3.19	3.07	3.28	3.33	**3.17**	**3.14**	**3.02**
Total	0.00	98.72	98.75	0.00	98.72	98.69	98.70	98.75	98.70	**98.83**	**98.81**	**98.82**

ND = none detected.

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Table III-F. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 37

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1006	Sample 2006	Sample 3006	Sample 4006	Spiked Control-2	TM Standard-2	Sample 2006	Sample 3006	Sample 4006
Compound	005-002	005-003	005-004	005-005	005-006	005-007	005-008	005-009	005-010	005-006	005-007	005-008
Isobutane	ND	1.56	1.42	ND	1.73	1.60	1.74	1.53	1.41	**1.70**	**1.57**	**1.71**
N-Butane	ND	9.25	8.60	ND	9.98	9.48	9.93	9.07	8.61	**9.81**	**9.32**	**9.75**
Ethanol + 3-Methyl-1-butene	ND	7.80	10.16	ND	6.99	7.00	7.24	7.90	10.49	**8.73**	**8.74**	**9.04**
Isopentane	ND	36.75	35.60	ND	37.68	37.44	37.61	36.58	35.43	**37.02**	**36.79**	**36.93**
N-Pentane	ND	8.26	7.92	ND	8.34	8.18	8.11	8.13	7.81	**8.19**	**8.04**	**7.96**
Trans-2-pentene	ND	2.26	2.17	ND	2.43	2.35	2.37	2.24	2.21	**2.39**	**2.31**	**2.33**
2,3-Dimethylbutane	ND	2.06	2.10	ND	2.04	2.07	2.02	2.06	2.06	**2.00**	**2.03**	**1.98**
2-Methylpentane	ND	6.56	6.49	ND	6.46	6.54	6.42	6.56	6.41	**6.35**	**6.43**	**6.30**
3-Methylpentane	ND	3.86	3.83	ND	3.79	3.85	3.77	3.87	3.77	**3.72**	**3.78**	**3.70**
N-hexane	ND	3.36	3.32	ND	3.26	3.33	3.25	3.37	3.28	**3.20**	**3.27**	**3.19**
Methylcyclopentane	ND	1.75	1.75	ND	1.70	1.74	1.70	1.75	1.72	**1.67**	**1.71**	**1.67**
2,4-Dimethylpentane	ND	1.52	1.50	ND	1.46	1.50	1.45	1.51	1.50	**1.43**	**1.47**	**1.42**
Benzene	ND	2.41	2.47	ND	2.31	2.37	2.30	2.41	2.43	**2.27**	**2.33**	**2.26**
2-Methylhexane	ND	1.69	1.68	ND	1.60	1.65	1.59	1.70	1.66	**1.57**	**1.62**	**1.56**
2,3-Dimethylpentane	ND	1.75	1.76	ND	1.68	1.72	1.66	1.77	1.74	**1.65**	**1.69**	**1.63**
3-Methylhexane	ND	1.97	1.98	ND	1.86	1.93	1.86	1.98	1.95	**1.83**	**1.90**	**1.83**
Isooctane	ND	2.24	2.21	ND	2.08	2.17	2.07	2.24	2.21	**2.04**	**2.13**	**2.03**
Toluene	ND	3.53	3.66	ND	3.22	3.36	3.20	3.58	3.62	**3.16**	**3.30**	**3.14**
Total	0.00	98.58	98.62	0.00	98.61	98.28	98.29	98.25	98.31	**98.73**	**98.43**	**98.43**

ND = none detected.

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Table III-G. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 44

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1007	Sample 2007	Sample 3007	Sample 4007	Spiked Control-2	TM Standard-2	Sample 2007	Sample 3007	Sample 4007
Compound	006-002	006-003	006-004	006-005	006-006	006-007	006-008	006-009	006-010	006-006	006-007	006-008
Isobutane	ND	1.41	1.33	ND	1.68	1.54	1.66	1.39	1.30	**1.66**	**1.51**	**1.63**
N-Butane	ND	8.63	8.25	ND	9.76	9.26	9.62	8.55	8.16	**9.63**	**9.10**	**9.46**
Ethanol + 3-Methyl-1-butene	ND	7.77	10.42	ND	5.45	6.90	6.72	8.09	10.35	**6.78**	**8.61**	**8.38**
Isopentane	ND	36.39	35.28	ND	37.93	37.34	37.41	36.28	35.26	**37.43**	**36.70**	**36.79**
N-Pentane	ND	8.28	8.13	ND	8.59	8.51	8.37	8.37	8.24	**8.48**	**8.36**	**8.23**
Trans-2-pentene	ND	2.14	1.94	ND	2.14	2.11	2.16	2.10	1.94	**2.11**	**2.07**	**2.12**
2,3-Dimethylbutane	ND	2.16	2.06	ND	2.15	2.16	2.10	2.13	2.07	**2.12**	**2.12**	**2.07**
2-Methylpentane	ND	6.69	6.52	ND	6.64	6.62	6.58	6.68	6.55	**6.55**	**6.51**	**6.47**
3-Methylpentane	ND	3.95	3.85	ND	3.93	3.89	3.87	3.94	3.86	**3.88**	**3.82**	**3.81**
N-hexane	ND	3.45	3.35	ND	3.38	3.37	3.35	3.44	3.36	**3.34**	**3.31**	**3.29**
Methylcyclopentane	ND	1.80	1.76	ND	1.78	1.77	1.75	1.80	1.77	**1.76**	**1.74**	**1.72**
2,4-Dimethylpentane	ND	1.59	1.54	ND	1.55	1.53	1.52	1.58	1.55	**1.53**	**1.50**	**1.49**
Benzene	ND	2.50	2.51	ND	2.39	2.42	2.40	2.48	2.51	**2.36**	**2.38**	**2.36**
2-Methylhexane	ND	1.77	1.72	ND	1.71	1.69	1.68	1.76	1.73	**1.69**	**1.66**	**1.65**
2,3-Dimethylpentane	ND	1.84	1.80	ND	1.80	1.77	1.76	1.84	1.80	**1.78**	**1.74**	**1.73**
3-Methylhexane	ND	2.07	2.02	ND	2.00	1.98	1.96	2.06	2.03	**1.97**	**1.95**	**1.93**
Isooctane	ND	2.37	2.29	ND	2.28	2.24	2.22	2.35	2.31	**2.25**	**2.20**	**2.18**
Toluene	ND	3.80	3.80	ND	3.47	3.52	3.48	3.77	3.79	**3.42**	**3.46**	**3.42**
Total	0.00	98.61	98.57	0.00	98.63	98.62	98.61	98.61	98.58	**98.74**	**98.74**	**98.73**

ND = none detected.

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Table III-H. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 51

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1008	Sample 2008	Sample 3008	Sample 4008	Spiked Control-2	TM Standard-2	Sample 2008	Sample 3008	Sample 4008
Compound	007-002	007-003	007-004	007-005	007-006	007-007	007-008	007-009	007-010	007-006	007-007	007-008
Isobutane	ND	1.48	1.39	ND	1.68	1.60	1.61	1.45	1.38	**1.65**	**1.57**	**1.58**
N-Butane	ND	8.92	8.51	ND	9.69	9.47	9.49	8.75	8.41	**9.53**	**9.30**	**9.33**
Ethanol + 3-Methyl-1-butene	ND	7.72	10.53	ND	6.81	7.04	6.92	7.69	10.35	**8.50**	**8.79**	**8.64**
Isopentane	ND	36.50	35.43	ND	37.31	37.16	37.37	36.54	35.42	**36.68**	**36.51**	**36.73**
N-Pentane	ND	8.30	7.94	ND	8.33	8.38	8.23	8.09	7.98	**8.19**	**8.23**	**8.09**
Trans-2-pentene	ND	2.30	2.19	ND	2.23	2.36	2.44	2.37	2.21	**2.19**	**2.32**	**2.40**
2,3-Dimethylbutane	ND	2.17	2.11	ND	2.07	2.15	2.08	2.17	2.07	**2.04**	**2.11**	**2.04**
2-Methylpentane	ND	6.62	6.42	ND	6.53	6.53	6.58	6.70	6.51	**6.42**	**6.42**	**6.47**
3-Methylpentane	ND	3.90	3.78	ND	3.84	3.84	3.87	3.94	3.83	**3.78**	**3.77**	**3.80**
N-hexane	ND	3.40	3.29	ND	3.33	3.33	3.35	3.43	3.34	**3.27**	**3.27**	**3.29**
Methylcyclopentane	ND	1.78	1.73	ND	1.75	1.74	1.75	1.80	1.75	**1.72**	**1.71**	**1.72**
2,4-Dimethylpentane	ND	1.56	1.52	ND	1.52	1.52	1.52	1.57	1.52	**1.49**	**1.49**	**1.49**
Benzene	ND	2.46	2.46	ND	2.40	2.39	2.40	2.45	2.49	**2.36**	**2.35**	**2.36**
2-Methylhexane	ND	1.73	1.68	ND	1.67	1.67	1.66	1.75	1.69	**1.64**	**1.64**	**1.63**
2,3-Dimethylpentane	ND	1.81	1.76	ND	1.75	1.76	1.74	1.82	1.77	**1.72**	**1.73**	**1.71**
3-Methylhexane	ND	2.03	1.98	ND	1.96	1.97	1.95	2.04	1.98	**1.93**	**1.94**	**1.92**
Isooctane	ND	2.31	2.24	ND	2.22	2.24	2.20	2.31	2.25	**2.18**	**2.20**	**2.16**
Toluene	ND	3.70	3.72	ND	3.50	3.51	3.42	3.70	3.68	**3.44**	**3.45**	**3.36**
Total	0.00	98.69	98.68	0.00	98.59	98.66	98.58	98.57	98.63	**98.73**	**98.80**	**98.72**

ND = none detected.

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Table III-I. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 58

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1009	Sample 2009	Sample 3009	Sample 4009	Spiked Control-2	TM Standard-2	Sample 2009	Sample 3009	Sample 4009
Compound	008-002	008-003	008-004	008-005	008-006	008-007	008-008	008-009	008-010	008-006	008-007	008-008
Isobutane	ND	1.29	1.24	ND	1.62	1.46	1.41	1.29	1.24	**1.59**	**1.43**	**1.38**
N-Butane	ND	8.18	7.90	ND	9.46	8.89	8.99	8.28	7.90	**9.30**	**8.72**	**8.82**
Ethanol + 3-Methyl-1-butene	ND	7.99	10.35	ND	6.85	7.60	7.49	7.90	10.60	**8.55**	**9.50**	**9.36**
Isopentane	ND	36.02	35.13	ND	37.12	36.65	36.24	36.08	35.10	**36.49**	**35.95**	**35.56**
N-Pentane	ND	8.17	8.07	ND	8.10	8.38	8.26	8.23	7.94	**7.96**	**8.22**	**8.11**
Trans-2-pentene	ND	2.27	2.17	ND	2.39	2.19	2.16	2.21	2.17	**2.35**	**2.15**	**2.12**
2,3-Dimethylbutane	ND	2.22	2.15	ND	2.09	2.18	2.12	2.20	2.13	**2.05**	**2.14**	**2.08**
2-Methylpentane	ND	6.78	6.62	ND	6.57	6.61	6.58	6.75	6.55	**6.46**	**6.48**	**6.46**
3-Methylpentane	ND	3.99	3.91	ND	3.86	3.88	3.86	3.99	3.87	**3.79**	**3.81**	**3.79**
N-hexane	ND	3.49	3.42	ND	3.34	3.37	3.36	3.48	3.39	**3.28**	**3.31**	**3.30**
Methylcyclopentane	ND	1.84	1.80	ND	1.76	1.77	1.76	1.83	1.78	**1.73**	**1.74**	**1.73**
2,4-Dimethylpentane	ND	1.63	1.56	ND	1.55	1.56	1.56	1.62	1.57	**1.52**	**1.53**	**1.53**
Benzene	<LOQ	2.54	2.55	<LOQ	2.38	2.42	2.40	2.53	2.53	**2.34**	**2.37**	**2.36**
2-Methylhexane	ND	1.81	1.75	ND	1.75	1.78	1.77	1.81	1.74	**1.72**	**1.75**	**1.74**
2,3-Dimethylpentane	ND	1.88	1.83	ND	1.78	1.80	1.80	1.88	1.82	**1.75**	**1.77**	**1.77**
3-Methylhexane	ND	2.12	2.05	ND	2.00	2.02	2.02	2.12	2.05	**1.97**	**1.98**	**1.98**
Isooctane	ND	2.45	2.33	ND	2.32	2.35	2.34	2.46	2.37	**2.28**	**2.31**	**2.30**
Toluene	ND	3.91	3.82	ND	3.62	3.71	3.68	3.94	3.91	**3.56**	**3.64**	**3.61**
Total	0.00	98.58	98.65	0.00	98.56	98.62	97.80	98.60	98.66	**98.69**	**98.80**	**98.00**

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.

Table III-J. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 65

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1010	Sample 2010	Sample 3010	Sample 4010	Spiked Control-2	TM Standard-2	Sample 2010	Sample 3010	Sample 4010
Compound	009-002	009-003	009-004	009-005	009-006	009-007	009-008	009-009	009-010	009-006	009-007	009-008
Isobutane	ND	1.45	1.21	ND	1.69	1.69	1.64	1.34	1.20	**1.66**	**1.66**	**1.61**
N-Butane	ND	8.77	7.83	ND	9.89	9.68	9.47	8.38	7.72	**9.71**	**9.51**	**9.30**
Ethanol + 3-Methyl-1-butene	ND	7.37	10.31	ND	7.51	6.92	7.33	7.85	10.57	**9.38**	**8.64**	**9.16**
Isopentane	ND	36.65	35.00	ND	38.28	37.15	36.97	36.14	34.92	**37.56**	**36.51**	**36.29**
N-Pentane	ND	8.37	7.97	ND	8.47	8.36	8.33	8.24	8.04	**8.31**	**8.22**	**8.18**
Trans-2-pentene	ND	2.25	2.32	ND	2.31	2.29	2.24	2.31	2.13	**2.27**	**2.25**	**2.20**
2,3-Dimethylbutane	ND	2.13	2.12	ND	2.02	2.07	2.14	2.21	2.09	**1.98**	**2.03**	**2.10**
2-Methylpentane	ND	6.71	6.62	ND	6.30	6.50	6.54	6.78	6.63	**6.18**	**6.39**	**6.42**
3-Methylpentane	ND	3.96	3.92	ND	3.70	3.83	3.85	4.00	3.92	**3.63**	**3.76**	**3.78**
N-hexane	ND	3.46	3.42	ND	3.15	3.31	3.35	3.49	3.43	**3.09**	**3.25**	**3.29**
Methylcyclopentane	ND	1.80	1.80	ND	1.71	1.74	1.74	1.83	1.80	**1.68**	**1.71**	**1.71**
2,4-Dimethylpentane	ND	1.56	1.58	ND	1.39	1.52	1.52	1.59	1.59	**1.36**	**1.49**	**1.49**
Benzene	ND	2.47	2.54	ND	2.28	2.37	2.38	2.51	2.55	**2.24**	**2.33**	**2.34**
2-Methylhexane	ND	1.76	1.76	ND	1.52	1.68	1.69	1.80	1.77	**1.49**	**1.65**	**1.66**
2,3-Dimethylpentane	ND	1.84	1.85	ND	1.58	1.76	1.77	1.87	1.85	**1.55**	**1.73**	**1.74**
3-Methylhexane	ND	2.06	2.08	ND	1.77	1.97	1.97	2.10	2.08	**1.74**	**1.94**	**1.93**
Isooctane	ND	2.32	2.38	ND	1.98	2.25	2.24	2.38	2.39	**1.94**	**2.21**	**2.20**
Toluene	ND	3.66	3.90	ND	3.11	3.52	3.52	3.79	3.91	**3.05**	**3.46**	**3.46**
Total	0.00	98.59	98.61	0.00	98.66	98.61	98.69	98.61	98.59	**98.82**	**98.74**	**98.86**

ND = none detected.

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Table III-K. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 72

					Area %					Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1011	Sample 2011	Sample 3011	Sample 4011	Spiked Control-2	TM Standard-2	Sample 2011	Sample 3011	Sample 4011
Compound	010-002	010-003	010-004	010-005	010-006	010-007	010-008	010-009	010-010	010-006	010-007	010-008
Isobutane	ND	1.35	1.24	ND	1.54	1.65	1.53	1.30	1.25	**1.51**	**1.62**	**1.50**
N-Butane	ND	8.41	7.93	ND	9.26	9.61	9.27	8.18	7.94	**9.10**	**9.45**	**9.11**
Ethanol + 3-Methyl-1-butene	ND	7.85	10.15	ND	6.96	6.55	6.87	7.77	10.33	**8.69**	**8.17**	**8.57**
Isopentane	ND	36.33	35.36	ND	37.44	37.60	37.56	36.21	35.21	**36.79**	**36.99**	**36.92**
N-Pentane	ND	8.22	8.02	ND	8.21	8.01	8.37	8.25	8.01	**8.07**	**7.88**	**8.23**
Trans-2-pentene	ND	2.45	2.45	ND	2.57	2.66	2.47	2.38	2.33	**2.53**	**2.62**	**2.43**
2,3-Dimethylbutane	ND	2.18	2.19	ND	2.18	2.13	2.17	2.20	2.11	**2.14**	**2.10**	**2.13**
2-Methylpentane	ND	6.23	6.07	ND	6.08	6.06	6.11	6.26	6.07	**5.97**	**5.96**	**6.01**
3-Methylpentane	ND	4.06	3.97	ND	3.96	3.94	3.96	4.08	3.96	**3.89**	**3.88**	**3.89**
N-hexane	ND	3.70	3.62	ND	3.58	3.56	3.58	3.73	3.61	**3.52**	**3.50**	**3.52**
Methylcyclopentane	ND	1.86	1.83	ND	1.79	1.79	1.79	1.88	1.82	**1.76**	**1.76**	**1.76**
2,4-Dimethylpentane	ND	1.36	1.34	ND	1.31	1.30	1.31	1.39	1.34	**1.29**	**1.28**	**1.29**
Benzene	ND	2.59	2.62	ND	2.48	2.48	2.47	2.62	2.61	**2.44**	**2.44**	**2.43**
2-Methylhexane	ND	1.83	1.79	ND	1.73	1.73	1.72	1.85	1.79	**1.70**	**1.70**	**1.69**
2,3-Dimethylpentane	ND	1.90	1.85	ND	1.80	1.80	1.79	1.93	1.86	**1.77**	**1.77**	**1.76**
3-Methylhexane	ND	2.15	2.09	ND	2.03	2.03	2.02	2.18	2.10	**1.99**	**2.00**	**1.99**
Isooctane	ND	2.40	2.36	ND	2.28	2.27	2.25	2.48	2.37	**2.24**	**2.23**	**2.21**
Toluene	ND	3.85	3.90	ND	3.59	3.56	3.51	4.00	3.99	**3.53**	**3.50**	**3.45**
Total	0.00	98.72	98.78	0.00	98.79	98.73	98.75	98.69	98.70	**98.93**	**98.85**	**98.89**

ND = none detected.

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Table III-L. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 79

					*Area %					Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1012	Sample 2012	Sample 3012	Sample 4012	Spiked Control-2	TM Standard-2	Sample 2012	Sample 3012	Sample 4012
Compound	011-002	011-003	011-004	011-005	011-006	011-007	011-008	011-009	011-010	011-006	011-007	011-008
Isobutane	ND	1.22	1.20	ND	1.38	1.26	1.22	1.24	1.19	**1.36**	**1.25**	**1.21**
N-Butane	ND	7.98	7.81	ND	8.97	8.13	8.38	8.00	7.77	**8.84**	**8.04**	**8.29**
Ethanol + 3-Methyl-1-butene	ND	8.01	10.74	ND	5.95	4.51	4.53	8.19	10.79	**7.41**	**5.59**	**5.61**
Isopentane	ND	36.04	35.31	ND	38.25	38.03	38.43	36.02	35.30	**37.69**	**37.62**	**38.01**
N-Pentane	ND	8.18	8.04	ND	8.48	8.72	8.72	8.34	8.12	**8.36**	**8.63**	**8.63**
Trans-2-pentene	ND	2.50	2.41	ND	2.50	2.09	2.33	2.22	2.24	**2.46**	**2.07**	**2.30**
2,3-Dimethylbutane	ND	2.23	2.18	ND	2.16	2.21	2.20	2.22	2.13	**2.13**	**2.19**	**2.18**
2-Methylpentane	ND	6.25	6.04	ND	5.97	6.35	6.58	6.17	6.05	**5.88**	**6.28**	**6.51**
3-Methylpentane	ND	4.08	3.96	ND	4.05	4.14	4.18	4.04	3.93	**3.99**	**4.10**	**4.13**
N-hexane	ND	3.59	3.61	ND	3.59	3.56	3.68	3.54	3.44	**3.54**	**3.52**	**3.64**
Methylcyclopentane	ND	1.87	1.80	ND	1.83	1.89	1.86	1.85	1.79	**1.80**	**1.87**	**1.84**
2,4-Dimethylpentane	ND	1.66	1.31	ND	1.55	1.66	1.29	1.65	1.58	**1.53**	**1.64**	**1.28**
Benzene	ND	2.60	2.58	ND	3.00	4.66	4.55	2.57	2.54	**2.96**	**4.61**	**4.50**
2-Methylhexane	ND	1.84	1.76	ND	1.71	1.83	1.80	1.88	1.73	**1.69**	**1.81**	**1.78**
2,3-Dimethylpentane	ND	1.91	1.82	ND	1.79	1.83	1.76	1.91	1.80	**1.76**	**1.81**	**1.74**
3-Methylhexane	ND	2.16	2.06	ND	2.02	2.04	2.07	2.16	2.05	**1.99**	**2.02**	**2.05**
Isooctane	ND	2.45	2.30	ND	2.27	2.47	2.28	2.53	2.30	**2.24**	**2.44**	**2.26**
Toluene	ND	4.00	3.85	ND	3.24	3.24	2.84	4.07	3.86	**3.19**	**3.21**	**2.81**
Total	0.00	98.57	98.78	0.00	98.71	98.62	98.70	98.60	98.61	**98.82**	**98.70**	**98.77**

ND = none detected. *The Ethanol values were low, while Benzene values were high for exposure 79. Also sample collection of all compound was low.

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Table III-M. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 86

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1013	Sample 2013	Sample 3013	Sample 4013	Spiked Control-2	TM Standard-2	Sample 2013	Sample 3013	Sample 4013
Compound	012-002	012-003	012-004	012-005	012-006	012-007	012-008	012-009	012-010	012-006	012-007	012-008
Isobutane	ND	1.50	1.44	ND	1.43	2.28	2.25	1.51	1.36	**1.41**	**2.24**	**2.21**
N-Butane	ND	8.98	8.75	ND	8.92	11.70	11.57	8.99	8.37	**8.77**	**11.51**	**11.38**
Ethanol + 3-Methyl-1-butene	ND	7.94	10.39	ND	6.72	6.71	6.80	7.67	10.32	**8.38**	**8.37**	**8.48**
Isopentane	ND	37.10	36.21	ND	37.54	38.23	37.93	37.18	35.65	**36.92**	**37.60**	**37.29**
N-Pentane	ND	8.33	8.11	ND	8.36	8.29	8.12	8.43	8.11	**8.22**	**8.15**	**7.98**
Trans-2-pentene	ND	2.17	2.19	ND	2.29	2.15	2.29	2.10	2.11	**2.25**	**2.11**	**2.25**
2,3-Dimethylbutane	ND	2.22	2.14	ND	2.19	1.98	1.97	2.21	2.09	**2.15**	**1.95**	**1.94**
2-Methylpentane	ND	6.13	5.91	ND	6.09	5.57	5.64	6.14	5.95	**5.99**	**5.48**	**5.55**
3-Methylpentane	ND	3.97	3.84	ND	3.96	3.60	3.62	3.99	3.89	**3.89**	**3.54**	**3.56**
N-hexane	ND	3.46	3.33	ND	3.44	3.09	3.13	3.47	3.39	**3.38**	**3.04**	**3.08**
Methylcyclopentane	ND	1.79	1.72	ND	1.79	1.59	1.61	1.79	1.77	**1.76**	**1.56**	**1.58**
2,4-Dimethylpentane	ND	1.31	1.27	ND	1.56	1.39	1.41	1.31	1.56	**1.53**	**1.37**	**1.39**
Benzene	ND	2.43	2.42	ND	2.46	2.19	2.23	2.44	2.51	**2.42**	**2.15**	**2.19**
2-Methylhexane	ND	1.72	1.65	ND	1.70	1.51	1.53	1.73	1.72	**1.67**	**1.48**	**1.50**
2,3-Dimethylpentane	ND	1.78	1.71	ND	1.78	1.57	1.60	1.80	1.79	**1.75**	**1.54**	**1.57**
3-Methylhexane	ND	2.01	1.93	ND	1.99	1.76	1.79	2.02	2.01	**1.96**	**1.73**	**1.76**
Isooctane	ND	2.25	2.16	ND	2.24	1.99	2.02	2.27	2.28	**2.20**	**1.96**	**1.99**
Toluene	ND	3.58	3.53	ND	3.51	3.14	3.21	3.60	3.74	**3.45**	**3.09**	**3.16**
Total	0.00	98.67	98.70	0.00	97.97	98.74	98.72	98.65	98.62	**98.10**	**98.87**	**98.86**

ND = none detected.

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Table III-N. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 93

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1014	Sample 2014	Sample 3014	Sample 4014	Spiked Control-2	TM Standard-2	Sample 2014	Sample 3014	Sample 4014
Compound	013-002	013-003	013-004	013-005	013-006	013-007	013-008	013-009	013-010	013-006	013-007	013-008
Isobutane	ND	1.34	1.24	ND	1.40	2.25	2.30	1.30	1.21	**1.37**	**2.21**	**2.26**
N-Butane	ND	8.21	7.96	ND	8.75	11.63	11.68	8.22	7.82	**8.59**	**11.44**	**11.49**
Ethanol + 3-Methyl-1-butene	ND	7.60	10.47	ND	7.37	6.63	6.55	7.69	10.52	**9.21**	**8.27**	**8.17**
Isopentane	ND	36.21	35.08	ND	37.02	38.20	37.79	36.27	35.12	**36.34**	**37.57**	**37.18**
N-Pentane	ND	8.34	8.04	ND	8.34	8.19	8.19	8.28	8.06	**8.19**	**8.06**	**8.06**
Trans-2-pentene	ND	2.23	2.22	ND	2.41	2.25	2.21	2.26	2.17	**2.37**	**2.21**	**2.17**
2,3-Dimethylbutane	ND	2.25	2.11	ND	2.22	1.94	1.95	2.23	2.17	**2.18**	**1.91**	**1.92**
2-Methylpentane	<LOQ	6.88	6.64	<LOQ	6.75	6.12	6.13	6.83	6.62	**6.63**	**6.02**	**6.03**
3-Methylpentane	ND	4.04	3.90	ND	3.98	3.58	3.59	4.03	3.91	**3.91**	**3.52**	**3.53**
N-hexane	<LOQ	3.51	3.39	ND	3.42	3.05	3.06	3.50	3.38	**3.36**	**3.00**	**3.01**
Methylcyclopentane	ND	1.83	1.78	ND	1.80	1.61	1.60	1.83	1.78	**1.77**	**1.58**	**1.57**
2,4-Dimethylpentane	ND	1.63	1.57	ND	1.31	1.36	1.39	1.63	1.58	**1.29**	**1.34**	**1.37**
Benzene	<LOQ	2.53	2.53	<LOQ	2.46	2.20	2.21	2.54	2.55	**2.41**	**2.16**	**2.17**
2-Methylhexane	ND	1.79	1.73	ND	1.73	1.47	1.52	1.80	1.74	**1.70**	**1.45**	**1.50**
2,3-Dimethylpentane	ND	1.87	1.80	ND	1.80	1.54	1.58	1.87	1.81	**1.77**	**1.51**	**1.55**
3-Methylhexane	ND	2.11	2.03	ND	2.02	1.73	1.77	2.11	2.05	**1.98**	**1.70**	**1.74**
Isooctane	ND	2.39	2.30	ND	2.28	1.92	2.01	2.39	2.31	**2.24**	**1.89**	**1.98**
Toluene	ND	3.84	3.81	ND	3.61	3.01	3.16	3.85	3.88	**3.54**	**2.96**	**3.11**
Total	0.00	98.60	98.60	0.00	98.67	98.68	98.69	98.63	98.68	**98.85**	**98.80**	**98.81**

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 Ethanol Vapor Condensate
Exposure 100

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1015	Sample 2015	Sample 3015	Sample 4015	Spiked Control-2	TM Standard-2	Sample 2015	Sample 3015	Sample 4015
Compound	014-002	014-003	014-004	014-005	014-006	014-007	014-008	014-009	014-010	014-006	014-007	014-008
Isobutane	ND	1.90	1.78	ND	1.40	2.30	2.30	1.89	1.75	**1.38**	**2.27**	**2.27**
N-Butane	ND	10.33	9.79	ND	8.71	11.75	11.74	10.29	9.72	**8.56**	**11.57**	**11.58**
Ethanol + 3-Methyl-1-butene	ND	7.08	9.71	ND	7.10	6.07	5.63	6.88	9.76	**8.86**	**7.56**	**7.00**
Isopentane	ND	37.09	35.92	ND	36.95	38.11	38.35	37.20	36.06	**36.30**	**37.54**	**37.82**
N-Pentane	ND	8.03	7.79	ND	8.20	8.20	8.24	8.19	8.00	**8.06**	**8.08**	**8.13**
Trans-2-pentene	ND	2.53	2.32	ND	2.39	2.41	2.38	2.40	2.29	**2.35**	**2.37**	**2.35**
2,3-Dimethylbutane	ND	2.03	2.01	ND	2.21	2.00	2.06	2.05	1.98	**2.17**	**1.97**	**2.03**
2-Methylpentane	ND	6.38	6.26	ND	6.76	6.19	6.26	6.44	6.27	**6.64**	**6.10**	**6.17**
3-Methylpentane	ND	3.73	3.67	ND	3.96	3.60	3.65	3.76	3.67	**3.89**	**3.55**	**3.60**
N-hexane	ND	3.24	3.18	ND	3.44	3.06	3.12	3.23	3.17	**3.38**	**3.01**	**3.08**
Methylcyclopentane	ND	1.68	1.66	ND	1.80	1.60	1.62	1.70	1.64	**1.77**	**1.58**	**1.60**
2,4-Dimethylpentane	ND	1.48	1.46	ND	1.58	1.38	1.18	1.47	1.43	**1.55**	**1.36**	**1.16**
Benzene	ND	2.33	2.37	ND	2.49	2.21	2.24	2.35	2.35	**2.45**	**2.18**	**2.21**
2-Methylhexane	ND	1.62	1.59	ND	1.73	1.50	1.53	1.63	1.58	**1.70**	**1.48**	**1.51**
2,3-Dimethylpentane	ND	1.69	1.66	ND	1.81	1.56	1.58	1.68	1.64	**1.78**	**1.54**	**1.56**
3-Methylhexane	ND	1.90	1.87	ND	2.04	1.75	1.78	1.91	1.85	**2.00**	**1.72**	**1.76**
Isooctane	ND	2.15	2.11	ND	2.31	1.95	1.98	2.15	2.08	**2.27**	**1.92**	**1.95**
Toluene	ND	3.45	3.52	ND	3.75	3.06	3.09	3.41	3.42	**3.68**	**3.01**	**3.05**
Total	0.00	98.64	98.67	0.00	98.63	98.70	98.73	98.63	98.66	**98.79**	**98.81**	**98.83**

ND = none detected.

	Analytical Report	Appendix B

Table III-P. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 107

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1016	Sample 2016	Sample 3016	Sample 4016	Spiked Control-2	TM Standard-2	Sample 2016	Sample 3016	Sample 4016
Compound	015-002	015-003	015-004	015-005	015-006	015-007	015-008	015-009	015-010	015-006	015-007	015-008
Isobutane	ND	1.96	1.78	ND	2.26	2.20	2.06	1.69	1.78	**2.22**	**2.17**	**2.03**
N-Butane	ND	10.55	9.84	ND	11.50	11.39	10.98	9.65	9.84	**11.32**	**11.23**	**10.83**
Ethanol + 3-Methyl-1-butene	ND	7.12	9.30	ND	6.39	5.79	5.63	6.57	9.53	**7.97**	**7.21**	**7.00**
Isopentane	ND	37.26	36.09	ND	37.75	37.97	37.57	37.02	36.06	**37.15**	**37.43**	**37.06**
N-Pentane	ND	8.11	7.85	ND	8.14	8.15	8.05	8.12	7.91	**8.01**	**8.03**	**7.94**
Trans-2-pentene	ND	2.40	2.40	ND	2.37	2.43	2.54	2.52	2.30	**2.33**	**2.40**	**2.51**
2,3-Dimethylbutane	ND	2.02	2.01	ND	2.04	2.08	2.06	2.14	2.02	**2.01**	**2.05**	**2.03**
2-Methylpentane	ND	6.32	6.27	ND	6.17	6.30	6.34	6.63	6.28	**6.07**	**6.21**	**6.25**
3-Methylpentane	ND	3.71	3.69	ND	3.61	3.70	3.72	3.89	3.68	**3.55**	**3.65**	**3.67**
N-hexane	ND	3.21	3.21	ND	3.11	3.19	3.19	3.38	3.19	**3.06**	**3.14**	**3.15**
Methylcyclopentane	ND	1.67	1.67	ND	1.63	1.66	1.69	1.76	1.66	**1.60**	**1.64**	**1.67**
2,4-Dimethylpentane	ND	1.45	1.45	ND	1.41	1.21	1.48	1.53	1.44	**1.39**	**1.19**	**1.46**
Benzene	ND	2.31	2.38	ND	2.24	2.30	2.34	2.46	2.37	**2.20**	**2.27**	**2.31**
2-Methylhexane	ND	1.59	1.60	ND	1.53	1.58	1.67	1.69	1.58	**1.51**	**1.56**	**1.65**
2,3-Dimethylpentane	ND	1.65	1.66	ND	1.59	1.63	1.69	1.76	1.65	**1.56**	**1.61**	**1.67**
3-Methylhexane	ND	1.87	1.87	ND	1.79	1.84	1.91	1.97	1.85	**1.76**	**1.81**	**1.88**
Isooctane	ND	2.11	2.12	ND	2.01	2.06	2.22	2.23	2.09	**1.98**	**2.03**	**2.19**
Toluene	ND	3.37	3.50	ND	3.21	3.26	3.50	3.59	3.45	**3.16**	**3.21**	**3.45**
Total	0.00	98.68	98.69	0.00	98.75	98.74	98.64	98.60	98.68	**98.85**	**98.84**	**98.75**

ND = none detected.

	Analytical Report	Appendix B

Table III-Q. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 114

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1017	Sample 2017	Sample 3017	Sample 4017	Spiked Control-2	TM Standard-2	Sample 2017	Sample 3017	Sample 4017
Compound	016-002	016-003	016-004	016-005	016-006	016-007	016-008	016-009	016-010	016-006	016-007	016-008
Isobutane	ND	1.85	1.82	ND	2.26	2.26	2.24	1.86	1.73	**2.22**	**2.22**	**2.20**
N-Butane	ND	10.12	9.93	ND	11.55	11.59	11.53	10.14	9.64	**11.37**	**11.40**	**11.35**
Ethanol + 3-Methyl-1-butene	ND	7.10	9.60	ND	6.42	6.59	6.45	7.19	9.52	**8.00**	**8.22**	**8.04**
Isopentane	ND	37.01	36.12	ND	37.87	38.03	38.03	37.11	36.03	**37.27**	**37.41**	**37.43**
N-Pentane	ND	8.08	7.90	ND	8.12	8.20	8.25	8.19	8.03	**7.99**	**8.07**	**8.12**
Trans-2-pentene	ND	2.41	2.31	ND	2.44	2.45	2.35	2.24	2.18	**2.40**	**2.41**	**2.31**
2,3-Dimethylbutane	ND	2.08	2.03	ND	2.01	2.02	1.97	2.11	2.09	**1.98**	**1.99**	**1.94**
2-Methylpentane	ND	6.45	6.23	ND	6.19	6.20	6.22	6.48	6.36	**6.09**	**6.10**	**6.12**
3-Methylpentane	ND	3.79	3.66	ND	3.61	3.62	3.64	3.80	3.74	**3.55**	**3.56**	**3.58**
N-hexane	ND	3.30	3.17	ND	3.10	3.12	3.13	3.30	3.24	**3.05**	**3.07**	**3.08**
Methylcyclopentane	ND	1.71	1.65	ND	1.62	1.62	1.63	1.72	1.69	**1.59**	**1.59**	**1.60**
2,4-Dimethylpentane	ND	1.49	1.37	ND	1.39	1.16	1.16	1.27	1.23	**1.37**	**1.14**	**1.14**
Benzene	ND	2.36	2.35	ND	2.22	2.22	2.24	2.38	2.41	**2.18**	**2.18**	**2.20**
2-Methylhexane	ND	1.64	1.58	ND	1.51	1.50	1.51	1.65	1.62	**1.49**	**1.48**	**1.49**
2,3-Dimethylpentane	ND	1.72	1.65	ND	1.57	1.54	1.57	1.70	1.68	**1.55**	**1.51**	**1.55**
3-Methylhexane	ND	1.93	1.84	ND	1.75	1.72	1.75	1.92	1.90	**1.72**	**1.69**	**1.72**
Isooctane	ND	2.18	2.10	ND	1.97	1.94	1.96	2.17	2.13	**1.94**	**1.91**	**1.93**
Toluene	ND	3.45	3.42	ND	3.10	2.98	3.03	3.46	3.51	**3.05**	**2.93**	**2.98**
Total	0.00	98.67	98.73	0.00	98.70	98.76	98.66	98.69	98.73	**98.81**	**98.88**	**98.78**

ND = none detected.

	Analytical Report	Appendix B

Table III-R. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 121

	Area %									Corrected Sample Area %		
	Control 1	Spiked Control-1	TM Standard-1	Sample 1018	Sample 2018	Sample 3018	Sample 4018	Spiked Control-2	TM Standard-2	Sample 2018	Sample 3018	Sample 4018
Compound	017-002	017-003	017-004	017-005	017-006	017-007	017-008	017-009	017-010	017-006	017-007	017-008
Isobutane	ND	1.80	1.61	ND	2.23	2.15	2.40	1.76	1.64	**2.20**	**2.11**	**2.36**
N-Butane	ND	9.86	9.21	ND	11.53	11.26	12.07	9.75	9.30	**11.35**	**11.07**	**11.88**
Ethanol + 3-Methyl-1-butene	ND	7.12	9.56	ND	6.21	6.71	6.26	7.35	9.79	**7.74**	**8.37**	**7.80**
Isopentane	ND	37.03	35.91	ND	38.23	38.13	38.36	36.95	35.91	**37.65**	**37.50**	**37.77**
N-Pentane	ND	8.30	7.97	ND	8.17	8.17	8.14	8.15	7.99	**8.04**	**8.03**	**8.01**
Trans-2-pentene	ND	2.26	2.25	ND	2.34	2.28	2.30	2.21	2.12	**2.30**	**2.24**	**2.26**
2,3-Dimethylbutane	ND	2.16	2.08	ND	2.04	2.00	1.97	2.10	2.07	**2.01**	**1.97**	**1.94**
2-Methylpentane	ND	6.57	6.44	ND	6.28	6.25	6.11	6.54	6.40	**6.18**	**6.15**	**6.02**
3-Methylpentane	ND	3.86	3.78	ND	3.67	3.65	3.57	3.84	3.76	**3.61**	**3.59**	**3.52**
N-hexane	ND	3.35	3.29	ND	3.14	3.13	3.05	3.34	3.26	**3.09**	**3.08**	**3.00**
Methylcyclopentane	ND	1.73	1.69	ND	1.62	1.61	1.57	1.71	1.68	**1.60**	**1.58**	**1.55**
2,4-Dimethylpentane	ND	1.26	1.47	ND	1.16	1.38	1.33	1.51	1.47	**1.14**	**1.36**	**1.31**
Benzene	ND	2.40	2.44	ND	2.25	2.23	2.18	2.40	2.42	**2.22**	**2.19**	**2.15**
2-Methylhexane	ND	1.66	1.63	ND	1.49	1.48	1.44	1.65	1.61	**1.47**	**1.46**	**1.42**
2,3-Dimethylpentane	ND	1.72	1.69	ND	1.55	1.55	1.50	1.72	1.68	**1.53**	**1.52**	**1.48**
3-Methylhexane	ND	1.94	1.91	ND	1.74	1.73	1.69	1.94	1.89	**1.71**	**1.70**	**1.66**
Isooctane	ND	2.20	2.17	ND	1.97	1.95	1.90	2.21	2.17	**1.94**	**1.92**	**1.87**
Toluene	ND	3.49	3.58	ND	3.04	2.97	2.91	3.54	3.55	**2.99**	**2.92**	**2.87**
Total	0.00	98.71	98.68	0.00	98.66	98.63	98.75	98.67	98.71	**98.77**	**98.76**	**98.87**

ND = none detected.

	Analytical Report	Appendix B

Table III-S. Chamber Components Confirmation
Area Percent of Gasoline Ethanol Vapor Condensate
Exposure 128

	Area %							Corrected Sample Area %
	Control 1	Spiked Control-1	TM Standard-1	Sample 1019	Sample 3019	Spiked Control-2	TM Standard-2	Sample 3019
Compound	018-002	018-003	018-004	018-005	018-006	018-007	018-008	018-006
Isobutane	ND	1.98	1.86	ND	2.44	1.94	1.73	**2.40**
N-Butane	ND	10.54	10.08	ND	12.24	10.40	9.68	**12.05**
Ethanol + 3-Methyl-1-butene	ND	6.88	9.45	ND	6.16	7.09	9.43	**7.68**
Isopentane	ND	37.38	36.42	ND	39.02	37.30	36.32	**38.43**
N-Pentane	ND	8.34	8.24	<LOQ	8.68	8.47	8.30	**8.55**
Trans-2-pentene	ND	2.10	1.91	ND	1.99	1.96	1.89	**1.96**
2,3-Dimethylbutane	ND	2.07	2.03	ND	1.17	2.11	2.07	**1.15**
2-Methylpentane	ND	6.49	6.33	ND	6.36	6.50	6.42	**6.26**
3-Methylpentane	ND	3.80	3.70	ND	3.70	3.81	3.76	**3.64**
N-hexane	ND	3.27	3.18	ND	2.99	3.26	3.19	**2.94**
Methylcyclopentane	ND	1.67	1.63	ND	1.60	1.68	1.65	**1.58**
2,4-Dimethylpentane	ND	1.21	1.17	ND	1.15	1.22	1.20	**1.13**
Benzene	ND	2.35	2.35	ND	2.23	2.35	2.39	**2.20**
2-Methylhexane	ND	1.60	1.55	ND	1.48	1.59	1.59	**1.46**
2,3-Dimethylpentane	ND	1.66	1.61	ND	1.53	1.67	1.65	**1.51**
3-Methylhexane	ND	1.87	1.81	ND	1.72	1.88	1.86	**1.69**
Isooctane	ND	2.13	2.07	ND	1.97	2.14	2.12	**1.94**
Toluene	ND	3.35	3.34	ND	2.92	3.36	3.47	**2.88**
Total	0.00	98.69	98.73	0.00	99.35	98.73	98.72	**99.45**

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

Response (mV) vs. Time (minutes)

Some peak names are not printed or overlap with other names in the above chromatogram due to tight retention times and font sizes.

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

Response (mV) vs. Time (minutes)

Some peak names are not printed or overlap with other names in the above chromatogram due to tight retention times and font sizes.

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

Response (mV) vs. Time (minutes)

Some peak names are not printed or overlap with other names in the above chromatogram due to tight retention times and font sizes.

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APPENDIX C P0 GENERATION

GASOLINE ETHANOL 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
1051	TERMINAL SACRIFICE	7-MAY-02	106
1052	TERMINAL SACRIFICE	7-MAY-02	106
1053	TERMINAL SACRIFICE	7-MAY-02	106
1054	TERMINAL SACRIFICE	7-MAY-02	106
1055	TERMINAL SACRIFICE	7-MAY-02	106
1056	TERMINAL SACRIFICE	7-MAY-02	106
1057	TERMINAL SACRIFICE	7-MAY-02	106
1058	TERMINAL SACRIFICE	7-MAY-02	106
1059	TERMINAL SACRIFICE	7-MAY-02	106
1060	TERMINAL SACRIFICE	7-MAY-02	106
1061	TERMINAL SACRIFICE	7-MAY-02	106
1062	TERMINAL SACRIFICE	7-MAY-02	106
1063	TERMINAL SACRIFICE	7-MAY-02	106
1064	TERMINAL SACRIFICE	8-MAY-02	107
1065	TERMINAL SACRIFICE	8-MAY-02	107
1066	TERMINAL SACRIFICE	8-MAY-02	107
1067	TERMINAL SACRIFICE	8-MAY-02	107
1068	TERMINAL SACRIFICE	8-MAY-02	107
1069	TERMINAL SACRIFICE	8-MAY-02	107
1070	TERMINAL SACRIFICE	8-MAY-02	107
1071	TERMINAL SACRIFICE	8-MAY-02	107
1072	TERMINAL SACRIFICE	8-MAY-02	107
1073	TERMINAL SACRIFICE	8-MAY-02	107
1074	TERMINAL SACRIFICE	8-MAY-02	107
1075	TERMINAL SACRIFICE	8-MAY-02	107
1076	TERMINAL SACRIFICE	8-MAY-02	107

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APPENDIX C P0 GENERATION

GASOLINE ETHANOL 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
2051	TERMINAL SACRIFICE	7-MAY-02	106
2052	TERMINAL SACRIFICE	7-MAY-02	106
2053	TERMINAL SACRIFICE	7-MAY-02	106
2054	TERMINAL SACRIFICE	7-MAY-02	106
2055	TERMINAL SACRIFICE	7-MAY-02	106
2056	TERMINAL SACRIFICE	7-MAY-02	106
2057	TERMINAL SACRIFICE	7-MAY-02	106
2058	TERMINAL SACRIFICE	7-MAY-02	106
2059	TERMINAL SACRIFICE	7-MAY-02	106
2060	TERMINAL SACRIFICE	7-MAY-02	106
2061	TERMINAL SACRIFICE	7-MAY-02	106
2062	TERMINAL SACRIFICE	7-MAY-02	106
2063	TERMINAL SACRIFICE	7-MAY-02	106
2064	TERMINAL SACRIFICE	8-MAY-02	107
2065	TERMINAL SACRIFICE	8-MAY-02	107
2066	TERMINAL SACRIFICE	8-MAY-02	107
2067	TERMINAL SACRIFICE	8-MAY-02	107
2068	TERMINAL SACRIFICE	8-MAY-02	107
2069	TERMINAL SACRIFICE	8-MAY-02	107
2070	TERMINAL SACRIFICE	8-MAY-02	107
2071	TERMINAL SACRIFICE	8-MAY-02	107
2072	TERMINAL SACRIFICE	8-MAY-02	107
2073	TERMINAL SACRIFICE	8-MAY-02	107
2074	TERMINAL SACRIFICE	8-MAY-02	107
2075	TERMINAL SACRIFICE	8-MAY-02	107
2076	TERMINAL SACRIFICE	8-MAY-02	107

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APPENDIX C P0 GENERATION

GASOLINE ETHANOL 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
3051	TERMINAL SACRIFICE	7-MAY-02	106
3052	TERMINAL SACRIFICE	7-MAY-02	106
3053	TERMINAL SACRIFICE	7-MAY-02	106
3054	TERMINAL SACRIFICE	7-MAY-02	106
3055	TERMINAL SACRIFICE	7-MAY-02	106
3056	TERMINAL SACRIFICE	7-MAY-02	106
3057	TERMINAL SACRIFICE	7-MAY-02	106
3058	TERMINAL SACRIFICE	7-MAY-02	106
3059	TERMINAL SACRIFICE	7-MAY-02	106
3060	TERMINAL SACRIFICE	7-MAY-02	106
3061	TERMINAL SACRIFICE	7-MAY-02	106
3062	TERMINAL SACRIFICE	7-MAY-02	106
3063	TERMINAL SACRIFICE	7-MAY-02	106
3064	TERMINAL SACRIFICE	8-MAY-02	107
3065	TERMINAL SACRIFICE	8-MAY-02	107
3066	TERMINAL SACRIFICE	8-MAY-02	107
3067	TERMINAL SACRIFICE	8-MAY-02	107
3068	TERMINAL SACRIFICE	8-MAY-02	107
3069	TERMINAL SACRIFICE	8-MAY-02	107
3070	TERMINAL SACRIFICE	8-MAY-02	107
3071	TERMINAL SACRIFICE	8-MAY-02	107
3072	TERMINAL SACRIFICE	8-MAY-02	107
3073	TERMINAL SACRIFICE	8-MAY-02	107
3074	TERMINAL SACRIFICE	8-MAY-02	107
3075	TERMINAL SACRIFICE	8-MAY-02	107
3076	TERMINAL SACRIFICE	8-MAY-02	107

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APPENDIX C P0 GENERATION

GASOLINE ETHANOL 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
4051	TERMINAL SACRIFICE	7-MAY-02	106
4052	TERMINAL SACRIFICE	7-MAY-02	106
4053	TERMINAL SACRIFICE	7-MAY-02	106
4054	TERMINAL SACRIFICE	7-MAY-02	106
4055	TERMINAL SACRIFICE	7-MAY-02	106
4056	TERMINAL SACRIFICE	7-MAY-02	106
4057	TERMINAL SACRIFICE	7-MAY-02	106
4058	TERMINAL SACRIFICE	7-MAY-02	106
4059	TERMINAL SACRIFICE	7-MAY-02	106
4060	TERMINAL SACRIFICE	7-MAY-02	106
4061	TERMINAL SACRIFICE	7-MAY-02	106
4062	TERMINAL SACRIFICE	7-MAY-02	106
4063	TERMINAL SACRIFICE	7-MAY-02	106
4064	TERMINAL SACRIFICE	8-MAY-02	107
4065	TERMINAL SACRIFICE	8-MAY-02	107
4066	TERMINAL SACRIFICE	8-MAY-02	107
4067	TERMINAL SACRIFICE	8-MAY-02	107
4068	TERMINAL SACRIFICE	8-MAY-02	107
4069	TERMINAL SACRIFICE	8-MAY-02	107
4070	TERMINAL SACRIFICE	8-MAY-02	107
4071	TERMINAL SACRIFICE	8-MAY-02	107
4072	TERMINAL SACRIFICE	8-MAY-02	107
4073	TERMINAL SACRIFICE	8-MAY-02	107
4074	TERMINAL SACRIFICE	8-MAY-02	107
4075	TERMINAL SACRIFICE	8-MAY-02	107
4076	TERMINAL SACRIFICE	8-MAY-02	107

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APPENDIX C P0 GENERATION

GASOLINE ETHANOL 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
1551	TERMINAL SACRIFICE	21-MAY-02	120	P
1552	TERMINAL SACRIFICE	22-MAY-02	121	P
1553	TERMINAL SACRIFICE	22-MAY-02	121	P
1554	TERMINAL SACRIFICE	22-MAY-02	121	P
1555	TERMINAL SACRIFICE	3-JUN-02	133	P
1556	TERMINAL SACRIFICE	23-MAY-02	122	P
1557	TERMINAL SACRIFICE	22-MAY-02	121	P
1558	TERMINAL SACRIFICE	22-MAY-02	121	P
1559	TERMINAL SACRIFICE	24-MAY-02	123	P
1560	TERMINAL SACRIFICE	25-MAY-02	124	P
1561	TERMINAL SACRIFICE	22-MAY-02	121	P
1562	TERMINAL SACRIFICE	23-MAY-02	122	P
1563	TERMINAL SACRIFICE	23-MAY-02	122	P
1564	TERMINAL SACRIFICE	22-MAY-02	121	P
1565	TERMINAL SACRIFICE	23-MAY-02	122	P
1566	TERMINAL SACRIFICE	23-MAY-02	122	P
1567	TERMINAL SACRIFICE	23-MAY-02	122	P
1568	TERMINAL SACRIFICE	21-MAY-02	120	P
1569	TERMINAL SACRIFICE	24-MAY-02	123	P
1570	TERMINAL SACRIFICE	23-MAY-02	122	P
1571	TERMINAL SACRIFICE	23-MAY-02	122	P
1572	TERMINAL SACRIFICE	21-MAY-02	120	P
1573	TERMINAL SACRIFICE	22-MAY-02	121	P
1574	TERMINAL SACRIFICE	24-MAY-02	123	P
1575	TERMINAL SACRIFICE	23-MAY-02	122	P
1576	TERMINAL SACRIFICE	26-APR-02	95	NP

NP-NOT PREGNANT, P-PREGNANT

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APPENDIX C P0 GENERATION

GASOLINE ETHANOL 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
2551	TERMINAL SACRIFICE	24-MAY-02	123	P
2552	TERMINAL SACRIFICE	24-MAY-02	123	P
2553	TERMINAL SACRIFICE	23-MAY-02	122	P
2554	TERMINAL SACRIFICE	27-MAY-02	126	P
2555	TERMINAL SACRIFICE	22-MAY-02	121	P
2556	TERMINAL SACRIFICE	26-MAY-02	125	P
2557	TERMINAL SACRIFICE	22-MAY-02	121	P
2558	TERMINAL SACRIFICE	22-MAY-02	121	P
2559	TERMINAL SACRIFICE	24-MAY-02	123	P
2560	TERMINAL SACRIFICE	22-MAY-02	121	P
2561	TERMINAL SACRIFICE	21-MAY-02	120	P
2562	TERMINAL SACRIFICE	22-MAY-02	121	P
2563	TERMINAL SACRIFICE	22-MAY-02	121	P
2564	TERMINAL SACRIFICE	24-MAY-02	123	P
2565	TERMINAL SACRIFICE	22-MAY-02	121	P
2566	TERMINAL SACRIFICE	26-APR-02	95	NP
2567	TERMINAL SACRIFICE	24-MAY-02	123	P
2568	TERMINAL SACRIFICE	24-MAY-02	123	P
2569	TERMINAL SACRIFICE	23-MAY-02	122	P
2570	TERMINAL SACRIFICE	22-MAY-02	121	P
2571	TERMINAL SACRIFICE	23-MAY-02	122	P
2572	TERMINAL SACRIFICE	23-MAY-02	122	P
2573	TERMINAL SACRIFICE	24-MAY-02	123	P
2574	TERMINAL SACRIFICE	22-MAY-02	121	P
2575	TERMINAL SACRIFICE	23-MAY-02	122	P
2576	TERMINAL SACRIFICE	22-MAY-02	121	P

NP-NOT PREGNANT, P-PREGNANT

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APPENDIX C P0 GENERATION

GASOLINE ETHANOL 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
3551	TERMINAL SACRIFICE	22-MAY-02	121	P
3552	TERMINAL SACRIFICE	9-MAY-02	108	NP
3553	TERMINAL SACRIFICE	26-MAY-02	125	P
3554	TERMINAL SACRIFICE	25-MAY-02	124	P
3555	TERMINAL SACRIFICE	29-MAY-02	128	P
3556	TERMINAL SACRIFICE	22-MAY-02	121	P
3557	TERMINAL SACRIFICE	22-MAY-02	121	P
3558	TERMINAL SACRIFICE	21-MAY-02	120	P
3559	TERMINAL SACRIFICE	22-MAY-02	121	P
3560	TERMINAL SACRIFICE	21-MAY-02	120	P
3561	TERMINAL SACRIFICE	21-MAY-02	120	P
3562	TERMINAL SACRIFICE	22-MAY-02	121	P
3563	TERMINAL SACRIFICE	25-MAY-02	124	P
3564	TERMINAL SACRIFICE	22-MAY-02	121	P
3565	TERMINAL SACRIFICE	22-MAY-02	121	P
3566	TERMINAL SACRIFICE	23-MAY-02	122	P
3567	TERMINAL SACRIFICE	22-MAY-02	121	P
3568	TERMINAL SACRIFICE	23-MAY-02	122	P
3569	TERMINAL SACRIFICE	24-MAY-02	123	P
3570	TERMINAL SACRIFICE	21-MAY-02	120	P
3571	TERMINAL SACRIFICE	23-MAY-02	122	P
3572	TERMINAL SACRIFICE	23-MAY-02	122	P
3573	TERMINAL SACRIFICE	22-MAY-02	121	P
3574	TERMINAL SACRIFICE	21-MAY-02	120	P
3575	TERMINAL SACRIFICE	31-MAY-02	130	P
3576	TERMINAL SACRIFICE	23-MAY-02	122	P

NP-NOT PREGNANT, P-PREGNANT

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APPENDIX C P0 GENERATION

GASOLINE ETHANOL 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
4551	TERMINAL SACRIFICE	23-MAY-02	122	P
4552	TERMINAL SACRIFICE	26-MAY-02	125	P
4553	TERMINAL SACRIFICE	22-MAY-02	121	P
4554	TERMINAL SACRIFICE	24-MAY-02	123	P
4555	TERMINAL SACRIFICE	20-MAY-02	119	P
4556	TERMINAL SACRIFICE	21-MAY-02	120	P
4557	TERMINAL SACRIFICE	22-MAY-02	121	P
4558	TERMINAL SACRIFICE	21-MAY-02	120	P
4559	TERMINAL SACRIFICE	23-MAY-02	122	P
4560	TERMINAL SACRIFICE	27-MAY-02	126	P
4561	TERMINAL SACRIFICE	21-MAY-02	120	P
4562	TERMINAL SACRIFICE	22-MAY-02	121	P
4563	TERMINAL SACRIFICE	23-MAY-02	122	P
4564	TERMINAL SACRIFICE	22-MAY-02	121	P
4565	TERMINAL SACRIFICE	27-APR-02	96	NP
4566	TERMINAL SACRIFICE	23-MAY-02	122	P
4567	TERMINAL SACRIFICE	22-MAY-02	121	P
4568	TERMINAL SACRIFICE	24-MAY-02	123	P
4569	TERMINAL SACRIFICE	24-MAY-02	123	P
4570	TERMINAL SACRIFICE	21-MAY-02	120	P
4571	TERMINAL SACRIFICE	22-MAY-02	121	P
4572	TERMINAL SACRIFICE	27-MAY-02	126	P
4573	TERMINAL SACRIFICE	23-MAY-02	122	P
4574	TERMINAL SACRIFICE	22-MAY-02	121	P
4575	TERMINAL SACRIFICE	24-MAY-02	123	P
4576	TERMINAL SACRIFICE	24-MAY-02	123	P

NP-NOT PREGNANT, P-PREGNANT

	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.

Corresponding exposure levels for each group were as follows:

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	1 4	2 1	2 8	3 5	4 2	4 9	5 6	6 3	7 0	7 7	8 4	9 1	9 8	1 0 5	1 0 6	1 0 7
1051	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																	P		
1052	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																	P		
1053	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																	P		
1054	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																	P		
1055	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																	P		
1056	WITHIN NORMAL LIMITS	P	P	P																
	TERMINAL SACRIFICE																	P		
	ALOPECIA - EXTREMITIES/SNOUT					2	2	3	3	3	3	3	3	3	3	3	3	3		
1057	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																	P		
1058	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																	P		
1059	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																	P		
1060	WITHIN NORMAL LIMITS	P	P	P	P															
	TERMINAL SACRIFICE																	P		
	ALOPECIA - EXTREMITIES/SNOUT						2	2	2	2	2	2	2	2	2	2	2	3		

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	106	107
1061	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
1062	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
1063	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
1064	WITHIN NORMAL LIMITS	P	P	P	P															
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT					2	2	2	2	2	2	2	2	2	2	2	2	2		
1065	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
1066	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
1067	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P									P		
	TERMINAL SACRIFICE																			P
	INCISORS MALOCCLUDED										P	P	P	P	P	P	P	P		
1068	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
1069	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P

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

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GASOLINE ETHANOL 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 - 7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	6	7
1070	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P									
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT											2	2	2	2	2	2	2		
1071	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
1072	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																			P
	BLACK/BROWN STAINS ON SNOUT																	1		
1073	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
1074	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P												
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT								2	2	2	2	2	2	2	2	2	3		
1075	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
1076	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P

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

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GASOLINE ETHANOL 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 - 7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	6	7
2051	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P								
	TERMINAL SACRIFICE																		P	
	ALOPECIA - EXTREMITIES/SNOUT													2	2	2	2	2		
2052	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
2053	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P												
	TERMINAL SACRIFICE																		P	
	ALOPECIA - EXTREMITIES/SNOUT								3	3	3	3	3	3	3	3	3	3		
2054	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P												
	TERMINAL SACRIFICE																		P	
	ALOPECIA - EXTREMITIES/SNOUT								2	2	2	3	3	3	3	3	3	3		
	ALOPECIA - GENERAL															2	2	2		
2055	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
2056	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE																		P	
	ALOPECIA - EXTREMITIES/SNOUT																	2		
2057	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
2058	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P						P	P	P				
	TERMINAL SACRIFICE																		P	
	ALOPECIA - EXTREMITIES/SNOUT								2	2	2	2	2				2	2		

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

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GASOLINE ETHANOL 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 - 7	0	7	1 4	1 8	2 5	2 9	3 6	4 3	5 0	6 7	7 4	8 1	9 8	9 5	1 0 6	1 0 7
2059	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																P	
	BLACK/BROWN STAINS ON SNOUT															1		
2060	WITHIN NORMAL LIMITS	P	P	P	P	P						P		P	P	P	P	
	TERMINAL SACRIFICE																P	
	ALOPECIA - EXTREMITIES/SNOUT						2	2	2	2	2		2					
2061	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P		P	P	P	P	P	P	
	TERMINAL SACRIFICE																P	
	ALOPECIA - EXTREMITIES/SNOUT										2	2						
2062	WITHIN NORMAL LIMITS	P	P	P		P	P	P	P	P	P	P	P	P				
	TERMINAL SACRIFICE																P	
	ALOPECIA - EXTREMITIES/SNOUT				2										2	2	2	
2063	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P							P	P	P	
	TERMINAL SACRIFICE																P	
	ALOPECIA - EXTREMITIES/SNOUT								2	2	2	2	2	2				
2064	WITHIN NORMAL LIMITS	P	P	P												P		
	TERMINAL SACRIFICE																	P
	ALOPECIA - EXTREMITIES/SNOUT				2	2	2	2	2	2	2	2	2	2	2	2		
2065	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																	P
2066	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE																	P

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

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GASOLINE ETHANOL 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 - 7	0	7	1 4	1 2	1 8	2 5	2 9	4 2	4 6	5 3	6 0	7 7	7 4	8 1	9 8	9 5	10 6	11 7
2067	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
2068	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P		P	P	P			P				
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT									2				2	2		2	2		
2069	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P							P	P	P		
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT									2	2	2	2	2	2					
	CHROMODACRYORRHEA - UNILATERAL									P										
2070	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
2071	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
2072	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																			P
2073	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P												
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT									2	2	3	3	3	3	3	3	3		
2074	WITHIN NORMAL LIMITS	P	P	P	P	P														
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT						2	2	2	2	2	2	2	2	2	2	2	2		

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	14	18	25	29	36	30	74	18	25	06	07
2075	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE														P
2076	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P			
	TERMINAL SACRIFICE														P
	ALOPECIA - EXTREMITIES/SNOUT										2	2	2	2	2

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	4	1	2	8	2	5	2	9	4	6	5	3	7	0	7	4	8	1	9	8	9	5	1 6	0	1 0	7
3051	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				
	TERMINAL SACRIFICE																										P			
3052	WITHIN NORMAL LIMITS	P	P																											
	TERMINAL SACRIFICE																										P			
	CHROMODACRYORRHEA - BILATERAL					P	P	P					P	P	P	P	P	P	P	P	P	P	P	P	P					
	LACRIMATION - UNILATERAL						2	2	2										2	2	2									
	CHROMODACRYORRHEA - UNILATERAL								P	P	P																			
	LACRIMATION - BILATERAL																							2	2					
	INCISORS MALOCCLUDED																	P	P	P	P	P	P							
	INCISORS BROKEN/MISSING								P	P	P	P	P	P								P	P	P						
3053	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P																		
	TERMINAL SACRIFICE																										P			
	LACRIMATION - UNILATERAL																								2					
	CHROMODACRYORRHEA - UNILATERAL																					P	P	P						
	INCISORS MALOCCLUDED																		P	P	P	P	P	P						
	INCISORS BROKEN/MISSING																	P	P	P	P	P	P	P						
3054	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P								
	TERMINAL SACRIFICE																										P			
	ALOPECIA - EXTREMITIES/SNOUT																								2					
3055	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					
	TERMINAL SACRIFICE																										P			
3056	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						
	TERMINAL SACRIFICE																										P			

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	14	18	25	29	36	30	37	41	48	55	56	57
3057	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE															P
3058	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P								
	TERMINAL SACRIFICE															P
	ALOPECIA - EXTREMITIES/SNOUT							2	3	3	3	3	3	3	3	3
3059	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P					
	TERMINAL SACRIFICE															P
	ALOPECIA - EXTREMITIES/SNOUT										2	3	3	3	3	3
3060	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE															P
3061	WITHIN NORMAL LIMITS	P	P	P	P	P	P									
	TERMINAL SACRIFICE															P
	INCISORS MALOCCLUDED						P	P	P	P	P	P	P	P		
	INCISORS BROKEN/MISSING								P	P	P	P	P	P	P	P
3062	WITHIN NORMAL LIMITS	P	P	P	P		P	P	P	P						
	TERMINAL SACRIFICE															P
	ALOPECIA - EXTREMITIES/SNOUT									2	2	3	3	3	3	3
	INCISORS MALOCCLUDED					P										
3063	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE															P
3064	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE															

ANIMAL#	OBSERVATIONS	58	59	60	61	62	63	64	65	66	67
3057	WITHIN NORMAL LIMITS										
	TERMINAL SACRIFICE										
3058	WITHIN NORMAL LIMITS										
	TERMINAL SACRIFICE										
	ALOPECIA - EXTREMITIES/SNOUT										
3059	WITHIN NORMAL LIMITS										
	TERMINAL SACRIFICE										
	ALOPECIA - EXTREMITIES/SNOUT										
3060	WITHIN NORMAL LIMITS										
	TERMINAL SACRIFICE										
3061	WITHIN NORMAL LIMITS										
	TERMINAL SACRIFICE										
	INCISORS MALOCCLUDED										
	INCISORS BROKEN/MISSING										
3062	WITHIN NORMAL LIMITS										
	TERMINAL SACRIFICE										
	ALOPECIA - EXTREMITIES/SNOUT										
	INCISORS MALOCCLUDED										
3063	WITHIN NORMAL LIMITS										
	TERMINAL SACRIFICE										
3064	WITHIN NORMAL LIMITS										
	TERMINAL SACRIFICE										P

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	1 4	1 2	1 8	2 5	2 9	3 6	3 0	4 7	4 4	5 1	6 8	7 5	7 2	8 9	9 6	9 3	10 0	10 7
3065	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																					P
3066	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																					P
3067	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																					P
3068	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																					P
3069	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P											
	TERMINAL SACRIFICE																					P
	ALOPECIA - EXTREMITIES/SNOUT														2	2	2	2	3	3	3	
3070	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																					P
3071	WITHIN NORMAL LIMITS	P	P																			
	TERMINAL SACRIFICE																					P
	ALOPECIA - EXTREMITIES/SNOUT					2	2	3	3	3	3	3	3	3	3	3	3	3	2	2	3	
	ALOPECIA - GENERAL												2	2	2	2	2	2				
3072	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																					P
3073	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																					P

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	1 4	2 1	2 8	3 5	4 2	4 9	5 6	6 3	7 0	7 7	8 4	9 1	9 8	10 5	11 6	11 7
3074	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	
3075	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P					
	TERMINAL SACRIFICE																		P	
	ALOPECIA - EXTREMITIES/SNOUT															2	2	2		
3076	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
	TERMINAL SACRIFICE																		P	

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 70	74	81	85	92	96	103	107	114	118	105	106	107
4051	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE												P	
4052	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE												P	
4053	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE												P	
4054	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE												P	
4055	WITHIN NORMAL LIMITS	P	P	P	P									
	TERMINAL SACRIFICE												P	
	ALOPECIA - EXTREMITIES/SNOUT					3	3	3	3	3	3	3	3	3
	ALOPECIA - GENERAL								3	3	3	3	3	3
4056	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P						
	TERMINAL SACRIFICE												P	
	INCISORS MALOCCLUDED							P	P	P	P	P	P	P
	INCISORS BROKEN/MISSING								P	P	P		P	
4057	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	
	TERMINAL SACRIFICE												P	
	INCISORS BROKEN/MISSING											P		
4058	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE												P	
	CHROMODACRYORRHEA - UNILATERAL										P			

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 70	74	81	85	92	96	103	107	114	118	125	100	106	107
4059	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE													P	
4060	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE													P	
4061	WITHIN NORMAL LIMITS	P	P	P	P	P		P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE													P	
	SCABS					P	P								
	RIGHT CERVICAL														
4062	WITHIN NORMAL LIMITS	P	P	P	P	P									
	TERMINAL SACRIFICE													P	
	ALOPECIA - EXTREMITIES/SNOUT					2	2	2	2	2	2	2	2	3	3
4063	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE													P	
4064	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE														P
4065	WITHIN NORMAL LIMITS	P	P	P	P	P							P	P	P
	TERMINAL SACRIFICE														P
	ALOPECIA - EXTREMITIES/SNOUT					2	2	2	2	2	2	2	2		
4066	WITHIN NORMAL LIMITS	P	P	P	P										
	TERMINAL SACRIFICE														P
	ALOPECIA - EXTREMITIES/SNOUT				2	3	3	3	3	2	2	2	3	3	3

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 70	07	14	21	28	35	29	96	30	07	14	18	05	06	07
4067	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE															P
4068	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE															P
4069	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE															P
4070	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P							
	TERMINAL SACRIFICE															P
	CHROMODACRYORRHEA - UNILATERAL								P	P						
	INCISORS MALOCCLUDED								P	P	P	P	P	P	P	P
4071	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE															P
4072	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P		P	P	
	TERMINAL SACRIFICE															P
	ALOPECIA - EXTREMITIES/SNOUT											2			2	2
4073	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE															P
4074	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	TERMINAL SACRIFICE															P
4075	WITHIN NORMAL LIMITS	P	P	P												
	TERMINAL SACRIFICE															P
	ALOPECIA - EXTREMITIES/SNOUT				2	3	3	3	3	3	3	2	2	2	2	2

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5	6	7
																		1	1	1
																		0	0	0
4076	WITHIN NORMAL LIMITS	P	P	P																
	TERMINAL SACRIFICE																			P
	ALOPECIA - EXTREMITIES/SNOUT					2	2	2	2	3	3	3	3	3	2	2	2	2	2	

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	1 4	1	2 8	2 5	3 2	4 9	4 6	5 3	6 0	7 7	7 4	8 1	9 8	9 1 5	0
1551	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1552	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1553	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P										
	CHROMODACRYORRHEA - UNILATERAL									P									
	INCISORS MALOCCLUDED									P	P	P	P						
	INCISORS BROKEN/MISSING									P	P								
1554	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1555	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
1556	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1557	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1558	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1559	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1560	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1561	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1562	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						
1563	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P						

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 70	07	14	21	28	35	42	49	56	63	70	77	84	91	98	105
1564	WITHIN NORMAL LIMITS	P	P	P	P	P											
	LACRIMATION - UNILATERAL							2	2	2	2	2					
	CHROMODACRYORRHEA - UNILATERAL						P	P	P	P	P	P					
	INCISORS BROKEN/MISSING						P	P	P	P	P	P					
1565	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
1566	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
1567	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
1568	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P						
1569	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
1570	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P									
	ALOPECIA - EXTREMITIES/SNOUT							2	2	2	2	2					
1571	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P							
	ALOPECIA - EXTREMITIES/SNOUT									2	2	2					
1572	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P						
1573	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
1574	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
1575	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					

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

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GASOLINE ETHANOL 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	1 0
			7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5
1576	WITHIN NORMAL LIMITS		P	P	P	P	P	P	P	P	P	P	P						

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 70	74	81	85	92	96	103	107	141	185
2551	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
2552	WITHIN NORMAL LIMITS	P	P	P	P	P	P		P	P	P
	INCISORS BROKEN/MISSING					P	P				
2553	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
2554	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
2555	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
2556	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
2557	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
2558	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P		P
	ALOPECIA - EXTREMITIES/SNOUT						2	2			
2559	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
2560	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
2561	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	
2562	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
2563	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P			
	ALOPECIA - GENERAL						2	2	2	2	

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

Huntingdon Life Sciences 00-4203

APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 7	0	7	4	1	8	5	2	9	6	3	0	7	4	1	8	5
2564	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P					
2565	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P			P	P						
	INCISORS BROKEN/MISSING								P	P								
2566	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P						
2567	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P					
2568	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P					
2569	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P					
2570	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P		P							
	ALOPECIA - EXTREMITIES/SNOUT											2	2					
	INCISORS BROKEN/MISSING									P								
2571	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P					
2572	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P					
2573	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P						
	INCISORS BROKEN/MISSING												P					
2574	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P					
2575	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P					
2576	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P					

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 70	74	81	85	29	63	07	74	18	105
3551	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
3552	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
3553	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
	ALOPECIA - EXTREMITIES/SNOUT						2	2	2		
3554	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
3555	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
3556	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
	ALOPECIA - EXTREMITIES/SNOUT							2	2		
3557	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
	ALOPECIA - EXTREMITIES/SNOUT						2	2	2		
3558	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
3559	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
3560	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
3561	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
3562	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
3563	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P

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

Huntingdon Life Sciences 00-4203

APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 70	07	14	18	25	29	36	30	07	41	18	105
3564	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P
3565	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P
3566	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P
3567	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P
3568	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P
3569	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P
3570	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	
3571	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
3572	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P
3573	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P
3574	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	
3575	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P	P
3576	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P	P

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 70	07	14	21	28	35	42	49	56	63	70	77	84	91	98	105
4551	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
4552	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
4553	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
4554	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
4555	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P							
	ALOPECIA - EXTREMITIES/SNOUT									2	2						
4556	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P						
4557	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
4558	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
4559	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
4560	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
4561	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P						
4562	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					
4563	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P									
	ALOPECIA - EXTREMITIES/SNOUT							2	2	2	2	2					
4564	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P	P					

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

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APPENDIX D - P0 GENERATION

GASOLINE ETHANOL 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 - 70	74	81	85	92	96	103	107	141	185
4565	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P			
	INCISORS MALOCCLUDED								P	P	P P
4566	WITHIN NORMAL LIMITS	P	P	P	P						
	ALOPECIA - EXTREMITIES/SNOUT					2	2	2	2	2	2 2
	ALOPECIA - GENERAL							2	2	2	2 2
4567	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P P
4568	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P P P P
4569	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P P
4570	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P
4571	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P P
4572	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P P P P
4573	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P P
4574	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P P P P
4575	WITHIN NORMAL LIMITS	P	P	P	P	P	P	P	P	P	P P
4576	WITHIN NORMAL LIMITS	P	P	P	P	P					
	ALOPECIA - EXTREMITIES/SNOUT						2	3	3	2	2 2 2

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

Huntingdon Life Sciences 00-4203

APPENDIX E P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1551	WITHIN NORMAL LIMITS	P							P							P							P				
1552	WITHIN NORMAL LIMITS	P							P							P							P				
1553	INCISORS MALOCCLUDED	P							P							P							P				
	INCISORS BROKEN/MISSING															P							P				
1554	WITHIN NORMAL LIMITS	P							P							P							P				
1556	WITHIN NORMAL LIMITS	P							P							P							P				
1557	WITHIN NORMAL LIMITS	P							P							P							P				
1558	WITHIN NORMAL LIMITS	P							P							P							P				
1559	WITHIN NORMAL LIMITS	P							P							P							P				
1560	WITHIN NORMAL LIMITS	P							P							P							P				
1561	WITHIN NORMAL LIMITS	P							P							P							P				
1562	WITHIN NORMAL LIMITS	P							P							P							P				
1563	WITHIN NORMAL LIMITS	P							P							P							P				
1564	LACRIMATION - UNILATERAL	2							2																		
	CHROMODACRYORRHEA - UNILATERAL	P							P																		
	INCISORS BROKEN/MISSING	P							P							P							P				
1565	WITHIN NORMAL LIMITS	P							P							P							P				
1566	INCISORS MALOCCLUDED															P							P				
	INCISORS BROKEN/MISSING															P											
	WITHIN NORMAL LIMITS	P							P																		

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

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APPENDIX E P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1567	WITHIN NORMAL LIMITS	P							P						P						P						
1568	INCISORS MALOCCLUDED																				P						
	INCISORS BROKEN/MISSING								P						P												
	WITHIN NORMAL LIMITS	P																									
1569	WITHIN NORMAL LIMITS	P							P						P						P						
1570	ALOPECIA - EXTREMITIES/SNOUT	2							3						3						3						
1571	ALOPECIA - EXTREMITIES/SNOUT	2							3						3						3						
1572	WITHIN NORMAL LIMITS	P							P						P						P						
1573	WITHIN NORMAL LIMITS	P							P						P						P						
1574	WITHIN NORMAL LIMITS	P							P						P						P						
1575	WITHIN NORMAL LIMITS	P							P						P						P						
1576 NP	TERMINAL SACRIFICE																										P
	WITHIN NORMAL LIMITS	P							P						P						P						

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

NP=NOT PREGNANT

Huntingdon Life Sciences 00-4203

APPENDIX E P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
2551	WITHIN NORMAL LIMITS	P							P							P								P			
2552	WITHIN NORMAL LIMITS	P							P							P								P			
2553	WITHIN NORMAL LIMITS	P							P							P								P			
2554	WITHIN NORMAL LIMITS	P							P							P								P			
2555	WITHIN NORMAL LIMITS	P							P							P								P			
2556	WITHIN NORMAL LIMITS	P							P							P								P			
2557	WITHIN NORMAL LIMITS	P							P							P								P			
2558	ALOPECIA - EXTREMITIES/SNOUT								2							2								2			
	WITHIN NORMAL LIMITS	P																									
2559	WITHIN NORMAL LIMITS	P							P							P								P			
2560	WITHIN NORMAL LIMITS	P							P							P								P			
2561	WITHIN NORMAL LIMITS	P							P							P								P			
2562	WITHIN NORMAL LIMITS	P							P							P								P			
2563	ALOPECIA - GENERAL	2							2							2								2			
2564	WITHIN NORMAL LIMITS	P							P							P								P			
2565	ALOPECIA - EXTREMITIES/SNOUT															2								2			
	WITHIN NORMAL LIMITS	P							P																		

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

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APPENDIX E P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
2566 NP	TERMINAL SACRIFICE																										P
	WITHIN NORMAL LIMITS	P							P						P						P						
2567	ALOPECIA - EXTREMITIES/SNOUT								2						3						3						
	WITHIN NORMAL LIMITS	P																									
2568	WITHIN NORMAL LIMITS	P							P						P						P						
2569	WITHIN NORMAL LIMITS	P							P						P						P						
2570	ALOPECIA - EXTREMITIES/SNOUT	2							2						2						3						
2571	WITHIN NORMAL LIMITS	P							P						P						P						
2572	WITHIN NORMAL LIMITS	P							P						P						P						
2573	INCISORS BROKEN/MISSING	P							P																		
	WITHIN NORMAL LIMITS														P						P						
2574	WITHIN NORMAL LIMITS	P							P						P						P						
2575	WITHIN NORMAL LIMITS	P							P						P						P						
2576	WITHIN NORMAL LIMITS	P							P						P						P						

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

NP=NOT PREGNANT

Huntingdon Life Sciences 00-4203

APPENDIX E P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
3551	WITHIN NORMAL LIMITS	P							P						P						P						P
3553	ALOPECIA - EXTREMITIES/SNOUT	2							2						2												
	WITHIN NORMAL LIMITS																										P
3554	WITHIN NORMAL LIMITS	P							P						P						P						P
3555	WITHIN NORMAL LIMITS	P							P						P						P						P
3556	ALOPECIA - EXTREMITIES/SNOUT	2							2						2						2						2
3557	ALOPECIA - EXTREMITIES/SNOUT	2							2						2						2						2
	INCISORS BROKEN/MISSING								P																		
3558	ALOPECIA - EXTREMITIES/SNOUT								2						2						2						2
	WITHIN NORMAL LIMITS	P																									
3559	WITHIN NORMAL LIMITS	P							P						P						P						P
3560	WITHIN NORMAL LIMITS	P							P						P						P						P
3561	WITHIN NORMAL LIMITS	P							P						P						P						P
3562	INCISORS BROKEN/MISSING								P																		
	WITHIN NORMAL LIMITS	P													P						P						P
3563	WITHIN NORMAL LIMITS	P							P						P						P						P
3564	WITHIN NORMAL LIMITS	P							P						P						P						P
3565	WITHIN NORMAL LIMITS	P							P						P						P						P

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

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APPENDIX E P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
3566	WITHIN NORMAL LIMITS	P							P							P						P					
3567	WITHIN NORMAL LIMITS	P							P							P						P					
3568	WITHIN NORMAL LIMITS	P							P							P						P					
3569	WITHIN NORMAL LIMITS	P							P							P						P					
3570	WITHIN NORMAL LIMITS	P							P							P						P					
3572	WITHIN NORMAL LIMITS	P							P							P						P					
3573	WITHIN NORMAL LIMITS	P							P							P						P					
3574	WITHIN NORMAL LIMITS	P							P							P						P					
3575	WITHIN NORMAL LIMITS	P							P							P						P					
3576	WITHIN NORMAL LIMITS	P							P							P						P					

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

Huntingdon Life Sciences 00-4203

APPENDIX E P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
4551		WITHIN NORMAL LIMITS	P							P							P						P					
4552		WITHIN NORMAL LIMITS	P							P							P						P					
4553		WITHIN NORMAL LIMITS	P							P							P						P					
4554		WITHIN NORMAL LIMITS	P							P							P						P					
4555		ALOPECIA - EXTREMITIES/SNOUT	2							2							2						2					
4556		WITHIN NORMAL LIMITS	P							P							P						P					
4557		WITHIN NORMAL LIMITS	P							P							P						P					
4558		INCISORS BROKEN/MISSING								P																		
		WITHIN NORMAL LIMITS	P														P						P					
4559		WITHIN NORMAL LIMITS	P							P							P						P					
4560		WITHIN NORMAL LIMITS	P							P							P						P					
4561		WITHIN NORMAL LIMITS	P							P							P						P					
4562		WITHIN NORMAL LIMITS	P							P							P						P					
4563		ALOPECIA - EXTREMITIES/SNOUT	2							2							3						3					
4564		WITHIN NORMAL LIMITS	P							P							P						P					
4565	NP	TERMINAL SACRIFICE																										P
		CHROMODACRYORRHEA - UNILATERAL															P						P					
		INCISORS MALOCCLUDED	P							P							P						P					
		INCISORS BROKEN/MISSING															P						P					

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

NP=NOT PREGNANT

Huntingdon Life Sciences 00-4203

APPENDIX E P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
4566	ALOPECIA - EXTREMITIES/SNOUT	2							2							2						2					
	ALOPECIA - GENERAL	2							2							2						2					
4567	WITHIN NORMAL LIMITS	P							P							P						P					
4569	WITHIN NORMAL LIMITS	P							P							P						P					
4570	WITHIN NORMAL LIMITS	P							P							P						P					
4571	WITHIN NORMAL LIMITS	P							P							P						P					
4573	WITHIN NORMAL LIMITS	P							P							P						P					
4575	WITHIN NORMAL LIMITS	P							P							P						P					
4576	ALOPECIA - EXTREMITIES/SNOUT	2							2							2						3					

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1551	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
1552	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
1553	TERMINAL SACRIFICE																													P
	INCISORS MALOCCLUDED					P			P							P							P							P
	INCISORS BROKEN/MISSING		P			P			P							P							P							P
1554	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
1555	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
1556	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
1557	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
1558	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
1559	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
1560	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1561	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
1562	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
1563	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
1564	TERMINAL SACRIFICE																													P
	INCISORS BROKEN/MISSING		P		P			P								P							P							P
1565	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
1566	TERMINAL SACRIFICE																													P
	INCISORS MALOCCLUDED		P		P			P								P							P							P
1567	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
1568	TERMINAL SACRIFICE																													P
	INCISORS MALOCCLUDED		P		P			P								P							P							P
1569	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
1570	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		3		3			3								3							3							3

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1571	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT			3		3			3							3								3						3
1572	WITHIN NORMAL LIMITS			P		P			P							P								P						P
	TERMINAL SACRIFICE																													P
1573	WITHIN NORMAL LIMITS			P		P			P							P								P						P
	TERMINAL SACRIFICE																													P
1574	WITHIN NORMAL LIMITS			P		P			P							P								P						P
	TERMINAL SACRIFICE																													P
1575	WITHIN NORMAL LIMITS			P		P			P							P								P						P
	TERMINAL SACRIFICE																													P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2551	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2552	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2553	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2554	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2555	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2556	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2557	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2558	WITHIN NORMAL LIMITS																						P							P
	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		2		2			2								2														
2559	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2560	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2561	WITHIN NORMAL LIMITS		P		P		P									P							P							P
	TERMINAL SACRIFICE																													P
2562	WITHIN NORMAL LIMITS		P		P		P									P							P							P
	TERMINAL SACRIFICE																													P
2563	TERMINAL SACRIFICE																													P
	ALOPECIA - GENERAL		2		2		2									2							2							2
2564	WITHIN NORMAL LIMITS		P		P		P									P							P							P
	TERMINAL SACRIFICE																													P
2565	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		2		2		2									2							2							2
2567	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		3		3		3									3							3							3
	ALOPECIA - GENERAL		2		2																									
2568	WITHIN NORMAL LIMITS		P		P		P									P							P							
	TERMINAL SACRIFICE																													P
	SWOLLEN PAW(S)																													P
2569	WITHIN NORMAL LIMITS		P		P		P									P							P							P
	TERMINAL SACRIFICE																													P
2570	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		3		3		3									3							3							3
2571	WITHIN NORMAL LIMITS		P		P		P									P							P							P
	TERMINAL SACRIFICE																													P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2572	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2573	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2574	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2575	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P
2576	WITHIN NORMAL LIMITS		P		P			P								P							P							P
	TERMINAL SACRIFICE																													P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3551	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3553	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3554	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3555	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3556	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		2			2			2							2							2							2
3557	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		2			2			2							2							2							2
	MASS(ES)								2							2							2							2
3558	WITHIN NORMAL LIMITS					P			P							P							P							P
	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		2																											
3559	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3560	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3561	WITHIN NORMAL LIMITS		P			P			P																					
	TERMINAL SACRIFICE																													P
	INCISORS MALOCCLUDED															P							P							P
	INCISORS BROKEN/MISSING															P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3562	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3563	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3564	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3565	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3566	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3567	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3568	WITHIN NORMAL LIMITS		P																											
	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT					2			2							2							2							2
3569	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3570	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
3571	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3572	WITHIN NORMAL LIMITS		P		P		P						P						P						P					P
	TERMINAL SACRIFICE																													P
3573	WITHIN NORMAL LIMITS		P		P		P						P						P						P					P
	TERMINAL SACRIFICE																													P
3574	WITHIN NORMAL LIMITS		P		P		P						P						P						P					P
	TERMINAL SACRIFICE																													P
3575	WITHIN NORMAL LIMITS		P		P		P						P						P						P					P
	TERMINAL SACRIFICE																													P
3576	WITHIN NORMAL LIMITS		P		P		P						P						P						P					P
	TERMINAL SACRIFICE																													P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4551	WITHIN NORMAL LIMITS		P		P		P									P								P						P
	TERMINAL SACRIFICE																													P
4552	WITHIN NORMAL LIMITS		P		P		P									P								P						P
	TERMINAL SACRIFICE																													P
4553	WITHIN NORMAL LIMITS		P		P		P									P								P						P
	TERMINAL SACRIFICE																													P
4554	WITHIN NORMAL LIMITS		P		P		P									P								P						P
	TERMINAL SACRIFICE																													P
4555	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		2		2		2									2								2						2
4556	WITHIN NORMAL LIMITS		P		P		P									P								P						P
	TERMINAL SACRIFICE																													P
4557	WITHIN NORMAL LIMITS		P		P		P									P								P						P
	TERMINAL SACRIFICE																													P
4558	WITHIN NORMAL LIMITS		P		P		P									P								P						P
	TERMINAL SACRIFICE																													P
4559	WITHIN NORMAL LIMITS		P		P		P									P								P						P
	TERMINAL SACRIFICE																													P
4560	WITHIN NORMAL LIMITS		P		P		P									P								P						P
	TERMINAL SACRIFICE																													P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4561	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4562	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4563	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		3			3			3							3							3							3
4564	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4566	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		2			2			2							2							2							2
	ALOPECIA - GENERAL		2			2			2							2							2							2
4567	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4568	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4569	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4570	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4571	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P

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

Huntingdon Life Sciences 00-4203

APPENDIX F P0 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4572	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4573	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4574	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4575	WITHIN NORMAL LIMITS		P			P			P							P							P							P
	TERMINAL SACRIFICE																													P
4576	TERMINAL SACRIFICE																													P
	ALOPECIA - EXTREMITIES/SNOUT		3			3			3							3							3							3
	ALOPECIA - GENERAL		2			2			2							2							2							2

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

Huntingdon Life Sciences 00-4203

APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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 -7	0	7	14	21	28	35	42	49	56	63	69	77	84	91	98
1051	131	207	268	318	365	389	423	448	478	498	507	525	550	564	573	585
1052	136	215	274	322	357	394	419	441	464	478	506	515	520	536	548	550
1053	141	222	275	328	362	395	418	436	441	452	471	478	503	522	524	537
1054	126	195	254	303	345	378	417	439	460	483	502	515	518	533	550	563
1055	129	212	276	328	385	412	455	492	506	538	561	571	588	601	611	614
1056	129	202	259	304	354	382	422	437	463	484	494	513	522	532	540	542
1057	132	207	259	311	358	396	438	464	472	491	506	515	531	538	543	554
1058	114	180	230	284	331	349	372	395	408	421	453	459	467	482	493	501
1059	135	199	246	284	319	337	373	388	405	414	434	436	452	465	474	479
1060	135	207	269	325	370	400	434	454	472	488	503	513	517	522	526	528
1061	105	173	222	269	317	355	406	435	453	485	511	530	540	535	556	568
1062	138	214	268	320	360	383	419	439	459	473	492	500	509	514	522	526
1063	109	182	227	278	318	353	392	415	439	457	470	485	493	506	515	518
1064	100	175	233	272	314	341	377	400	422	435	447	457	466	475	491	497
1065	138	215	276	332	367	406	445	466	487	505	523	536	538	550	559	565
1066	137	218	279	331	377	411	446	467	487	506	520	538	544	557	571	575
1067	125	203	256	307	355	383	414	441	443	466	481	502	512	528	544	551
1068	132	214	271	325	375	411	452	463	486	507	539	557	570	578	584	591
1069	128	203	251	298	337	365	403	431	456	464	486	503	504	525	540	550
1070	131	211	278	334	375	408	445	448	486	508	521	532	545	559	573	573
1071	120	196	260	314	353	381	428	445	473	504	526	535	548	563	580	595
1072	127	202	256	314	364	394	431	452	472	487	507	519	534	534	548	556
1073	134	210	260	302	326	348	388	398	408	415	428	436	443	452	460	465
1074	102	184	248	298	359	406	452	477	501	525	551	566	573	593	597	603
1075	123	201	260	311	355	386	426	445	468	478	503	528	532	545	567	568
1076	90	164	222	266	317	352	389	417	439	452	476	490	502	526	539	551
MEAN	125	200	257	307	351	381	419	440	460	478	497	510	520	532	543	550
S.D.	13.5	15.4	17.7	20.5	21.4	23.7	25.0	25.7	27.6	32.2	33.1	35.5	35.8	36.0	36.4	36.8
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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 -7	0	7	14	21	28	35	42	49	56	63	69	77	84	91	98
2051	132	210	263	306	336	369	390	420	438	447	465	474	487	497	504	504
2052	125	201	260	313	353	392	433	456	488	512	535	547	555	569	557	568
2053	138	216	272	318	354	382	415	440	466	488	502	522	530	541	552	557
2054	96	161	213	260	307	347	382	412	450	457	483	497	510	524	539	547
2055	132	211	268	317	364	391	426	452	479	496	519	531	537	554	561	556
2056	137	215	278	343	401	438	485	517	544	577	609	634	647	670	684	690
2057	104	174	234	288	331	361	399	428	459	482	500	517	538	567	565	571
2058	135	211	264	306	339	369	395	416	434	456	470	475	486	501	515	522
2059	109	171	214	259	290	318	347	363	382	393	416	422	430	440	455	451
2060	128	197	245	292	330	343	369	385	393	406	422	421	439	458	465	468
2061	123	194	244	287	326	348	380	400	430	447	473	480	482	495	498	504
2062	121	199	258	310	353	380	418	445	455	468	483	502	527	551	563	559
2063	129	207	266	321	361	385	424	440	468	495	522	533	553	571	571	581
2064	134	214	266	315	349	366	390	398	421	432	447	447	450	475	493	499
2065	126	197	246	297	329	356	395	412	428	452	470	483	492	498	522	524
2066	131	202	258	303	343	375	409	435	463	487	499	508	520	536	545	548
2067	139	225	288	350	392	432	471	489	509	535	554	570	579	584	598	605
2068	139	228	280	329	363	389	423	448	458	477	489	497	506	514	517	518
2069	135	207	260	315	359	391	416	432	452	461	477	485	504	510	521	520
2070	131	204	254	297	334	358	391	408	436	452	479	489	502	520	531	542
2071	110	173	211	257	295	330	370	400	428	451	479	485	510	527	545	551
2072	101	176	228	281	329	365	396	352	406	431	460	464	468	467	483	488
2073	107	184	243	299	337	362	402	428	452	463	491	501	517	524	533	545
2074	127	202	254	303	349	396	429	454	479	493	508	521	526	539	548	565
2075	128	207	258	311	360	400	432	448	471	482	504	525	527	539	550	552
2076	136	216	267	317	360	393	435	448	474	482	498	509	524	541	548	552
MEAN	125	200	253	303	344	374	408	428	452	470	491	501	513	527	537	542
S.D.	12.6	17.2	20.3	22.8	25.0	27.5	30.3	35.2	34.5	37.9	39.1	43.8	44.4	46.3	45.0	46.4
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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 -7	0	7	14	21	28	35	42	49	56	63	69	77	84	91	98
3051	132	199	251	303	348	373	408	419	441	461	472	479	493	505	515	511
3052	128	203	265	225	275	260	284	324	322	347	362	374	379	394	395	408
3053	137	198	248	287	315	349	385	392	415	418	436	441	414	390	437	455
3054	135	203	253	293	332	366	395	419	449	469	493	508	519	538	537	553
3055	129	199	263	323	362	406	444	460	484	506	525	543	549	575	588	602
3056	132	204	265	318	360	394	440	456	478	489	513	530	526	535	537	544
3057	135	204	257	318	359	384	421	401	460	486	507	520	529	540	547	554
3058	112	184	233	275	313	346	376	386	402	415	434	441	453	467	472	480
3059	108	172	233	288	325	340	364	381	404	428	440	446	463	476	484	490
3060	102	180	243	300	355	383	434	454	479	497	536	552	571	584	592	598
3061	136	204	259	302	338	372	407	420	440	459	475	491	501	504	507	520
3062	130	193	240	280	309	333	402	381	403	419	423	432	437	449	450	450
3063	126	196	255	314	352	381	417	428	449	458	479	493	507	524	535	543
3064	126	186	233	277	311	340	372	398	420	442	466	483	502	515	528	532
3065	138	219	272	322	357	393	442	458	489	509	530	548	558	572	587	595
3066	133	207	251	292	328	360	404	427	450	478	494	515	521	543	562	565
3067	142	211	259	311	345	376	411	429	454	475	500	515	531	532	537	539
3068	105	173	231	288	335	369	401	421	441	459	473	484	500	522	523	530
3069	123	201	256	303	343	367	397	412	430	446	460	482	486	494	510	507
3070	98	161	219	266	310	340	374	391	414	429	446	460	465	473	483	494
3071	117	182	241	297	337	374	402	420	446	473	497	507	517	522	528	536
3072	134	202	262	308	351	375	403	423	451	476	492	512	513	527	540	542
3073	108	173	221	277	320	346	378	400	419	445	470	483	498	514	520	518
3074	125	196	251	297	335	362	385	409	426	442	456	468	478	493	507	504
3075	131	203	262	324	361	406	450	467	489	506	522	535	552	565	584	582
3076	138	215	280	326	378	403	441	468	493	507	530	548	560	565	576	579
MEAN	125	195	250	297	337	365	401	417	440	459	478	492	501	512	522	528
S.D.	12.5	14.4	15.2	22.3	22.8	30.0	34.3	32.6	36.8	36.9	40.1	42.7	45.7	49.3	48.4	47.3
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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 -7	0	7	14	21	28	35	42	49	56	63	69	77	84	91	98
4051	133	203	250	298	336	365	423	417	439	453	473	482	494	515	526	535
4052	134	208	262	306	353	378	409	425	445	460	480	489	503	516	532	534
4053	126	194	237	275	305	338	382	397	417	433	454	469	483	496	507	524
4054	128	195	239	278	311	326	348	363	381	395	410	423	427	436	450	469
4055	129	200	253	301	341	378	410	421	439	451	470	473	483	484	491	491
4056	136	210	267	318	351	372	398	407	423	438	461	475	476	490	494	503
4057	131	207	260	308	345	371	413	432	445	462	485	489	491	507	512	516
4058	136	202	252	292	322	346	384	391	410	417	439	453	464	477	479	492
4059	132	218	274	321	362	379	423	451	470	485	505	506	522	544	535	540
4060	106	175	223	266	304	320	359	378	395	410	425	441	457	462	473	482
4061	140	223	282	343	388	423	460	483	514	529	549	569	579	582	594	598
4062	100	165	214	271	317	348	380	405	431	449	475	490	493	511	519	530
4063	94	168	227	274	326	363	402	427	454	480	501	521	530	551	572	590
4064	117	182	224	264	292	314	351	364	378	394	408	423	438	453	468	471
4065	117	196	258	312	356	373	411	427	442	450	461	466	482	492	505	503
4066	125	196	238	278	301	333	362	379	405	428	461	466	485	495	511	517
4067	103	176	231	281	315	342	379	405	422	442	469	487	482	501	524	516
4068	134	208	257	300	341	373	420	433	452	470	488	504	513	521	528	527
4069	130	204	260	304	345	377	411	420	442	455	472	485	494	509	523	525
4070	137	206	259	300	332	351	375	389	392	402	430	446	455	466	471	471
4071	126	188	240	292	336	372	413	443	472	497	522	529	549	564	587	600
4072	137	218	269	325	362	391	430	453	476	501	519	534	535	547	565	579
4073	131	203	248	281	310	329	358	388	403	422	437	449	456	468	477	482
4074	108	178	214	264	304	334	373	389	413	431	454	472	480	491	496	497
4075	138	223	278	331	371	393	422	437	452	475	493	512	532	564	584	590
4076	125	199	245	286	327	357	404	409	439	455	479	494	505	515	532	534
MEAN	125	198	248	295	333	359	396	413	433	449	470	483	492	506	517	524
S.D.	12.9	16.1	18.9	21.6	24.3	25.8	28.0	28.9	31.6	33.3	34.0	34.1	34.7	36.5	38.8	39.8
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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
1551	83	134	159	181	205	226	249	251	256	268	291	285				
1552	88	139	172	194	220	236	251	254	267	275	279	279				
1553	100	149	173	198	224	231	256	258	262	281	279	282				
1554	91	153	177	209	239	261	269	285	301	311	310	320				
1555	81	134	164	191	213	235	247	259	269	272	273	284	289	300	314	356
1556	89	141	169	194	216	228	251	260	271	272	284	281				
1557	83	138	168	188	207	233	256	261	268	285	283	287				
1558	95	137	167	191	203	227	247	244	258	263	265	271				
1559	86	135	168	198	222	237	260	264	270	269	283	280				
1560	85	137	163	187	204	223	237	246	255	265	275	271				
1561	126	171	195	223	240	269	285	291	302	310	325	322				
1562	80	137	160	187	204	226	237	253	265	267	280	282				
1563	74	117	144	161	189	216	219	220	219	224	234	234				
1564	103	164	201	234	263	283	295	307	316	321	321	330				
1565	86	140	164	191	210	226	246	248	255	259	268	260				
1566	87	140	176	212	241	259	283	297	310	313	328	333				
1567	89	140	158	179	199	220	237	241	252	262	268	273				
1568	78	119	149	182	199	202	226	231	233	244	244	246				
1569	100	156	186	213	238	259	266	283	294	302	305	299				
1570	112	148	173	196	210	224	252	265	272	276	284	291				
1571	91	136	160	191	222	225	254	258	274	276	290	291				
1572	94	149	181	203	222	245	263	274	289	290	315	315				
1573	98	156	183	207	241	258	273	287	298	301	310	320				
1574	117	174	190	213	234	255	255	271	282	295	307	288				
1575	88	136	149	169	193	206	209	221	229	232	243	245				
1576	102	155	185	199	229	255	268	272	288	289	302	303				
MEAN	92	144	171	196	219	237	253	262	271	278	286	287	289	300	314	356
S.D.	12.2	13.6	14.2	16.0	18.0	19.9	19.6	22.0	24.2	23.9	25.0	25.6	0.0	0.0	0.0	0.0
N	26	26	26	26	26	26	26	26	26	26	26	26	1	1	1	1

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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
2551	86	134	154	178	216	236	258	258	276	285	297	294				
2552	105	150	175	203	219	244	265	275	275	290	295	290				
2553	88	131	153	174	195	216	230	236	243	247	246	250				
2554	79	135	164	194	214	226	257	262	259	279	280	285				
2555	100	152	189	210	242	264	282	283	300	310	309	329				
2556	86	126	146	173	189	207	219	228	235	238	237	246				
2557	95	154	167	197	219	240	251	262	269	272	271	284				
2558	91	145	179	202	231	246	269	277	291	284	302	311				
2559	79	129	153	177	200	214	230	248	252	261	269	267				
2560	126	171	176	213	226	241	248	259	270	270	272	284				
2561	87	138	163	183	207	226	227	248	257	262	275	270				
2562	84	132	152	182	205	222	235	238	245	247	250	256				
2563	83	140	167	190	213	229	258	248	265	274	270	280				
2564	81	129	138	173	195	215	231	229	241	239	248	252				
2565	76	129	158	178	211	228	249	256	275	285	291	293				
2566	101	159	184	209	243	255	269	271	279	281	286	296				
2567	89	144	165	195	216	235	278	266	276	282	291	293				
2568	110	160	181	209	230	246	266	261	271	294	308	291				
2569	98	150	178	206	226	240	259	268	274	273	286	294				
2570	90	142	171	178	209	229	244	242	268	274	269	286				
2571	103	156	178	203	216	238	257	273	287	286	301	307				
2572	82	138	170	190	216	227	241	252	263	268	275	283				
2573	88	143	171	180	203	214	235	246	256	270	274	276				
2574	126	175	211	234	259	267	291	295	306	299	324	326				
2575	97	162	194	207	240	248	277	282	289	274	325	336				
2576	90	143	167	179	206	224	249	249	256	251	271	275				
MEAN	93	145	169	193	217	234	253	258	268	273	282	287				
S.D.	13.0	13.4	15.7	15.8	16.6	15.3	18.7	17.0	17.9	17.9	22.6	23.0				
N	26	26	26	26	26	26	26	26	26	26	26	26				

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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
3551	86	130	159	183	207	225	236	236	250	244	260	258				
3552	82	129	156	186	198	225	245	250	256	266	276	282	285	278	283	288
3553	123	171	197	224	251	272	295	291	318	321	326	342				
3554	86	130	156	167	201	210	233	244	239	260	269	266				
3555	89	130	159	177	185	208	230	234	238	250	252	244				
3556	88	132	161	187	208	232	246	257	266	273	271	284				
3557	101	145	174	202	216	238	255	264	273	275	287	296				
3558	76	112	143	159	182	201	228	221	239	240	249	252				
3559	102	164	200	226	247	259	271	278	284	287	293	302				
3560	98	139	166	185	220	228	271	248	269	275	280	292				
3561	90	139	165	183	196	216	235	225	241	253	257	260				
3562	83	129	161	188	212	233	264	253	259	260	271	277				
3563	82	127	156	180	202	237	241	247	244	262	265	261				
3564	94	140	166	183	202	230	228	239	245	250	248	253				
3565	73	115	142	160	185	207	213	223	226	239	239	247				
3566	81	121	155	180	202	209	232	234	238	237	249	249				
3567	85	128	163	189	208	219	240	247	255	257	269	271				
3568	85	129	152	181	207	219	239	250	253	270	269	278				
3569	127	168	191	213	226	246	267	273	264	286	296	293				
3570	92	144	180	221	242	280	286	294	299	320	327	328				
3571	108	150	187	211	236	243	271	283	291	296	313	314	332	357	415	
3572	98	147	169	204	225	235	255	258	272	275	285	286				
3573	90	150	178	213	232	251	270	271	289	297	305	312				
3574	87	133	175	191	217	240	254	265	275	285	295	294				
3575	112	158	189	215	224	244	257	267	272	274	291	302	331			
3576	100	132	161	180	202	207	223	232	242	245	254	256				
MEAN	93	138	168	192	213	231	249	253	261	269	277	281	316	317	349	288
S.D.	13.3	15.1	15.5	18.8	18.6	20.0	20.5	20.5	22.2	22.8	24.1	26.1	27.0	56.2	93.1	0.0
N	26	26	26	26	26	26	26	26	26	26	26	26	3	2	2	1

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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
4551	93	141	169	184	213	229	253	256	257	273	274	281				
4552	92	146	159	183	204	219	235	237	248	259	261	271				
4553	99	152	187	157	185	197	209	221	230	233	237	241				
4554	75	119	142	211	232	254	278	282	286	301	317	303				
4555	109	159	174	193	220	233	256	253	270	274	277	281				
4556	83	129	152	169	196	211	232	230	241	249	257	261				
4557	89	134	154	169	196	205	212	218	225	228	240	249				
4558	86	137	165	192	215	231	251	252	267	265	302	329				
4559	91	138	160	177	202	217	224	237	244	247	253	258				
4560	81	132	154	189	204	227	247	258	261	264	278	289				
4561	85	139	155	190	215	235	261	266	269	274	282	283				
4562	102	155	172	194	220	235	242	256	266	265	266	274				
4563	112	164	177	207	211	234	246	246	266	261	270	275				
4564	106	166	188	222	250	268	292	306	315	324	323	339				
4565	132	174	198	217	238	247	272	283	270	281	290	295				
4566	85	127	150	166	212	201	218	221	226	229	234	245				
4567	77	121	146	174	202	196	220	225	229	226	243	247				
4568	81	131	149	176	198	210	221	226	238	237	243	244	268	281	323	
4569	89	149	169	193	217	244	239	235	248	240	264	263				
4570	90	137	161	180	204	220	223	236	247	254	261	258				
4571	100	148	172	190	211	224	242	250	262	263	268	282				
4572	87	139	164	175	205	215	239	246	248	247	261	262	264	292	326	423
4573	99	151	177	197	222	221	254	250	254	253	266	266				
4574	83	128	146	171	183	199	212	220	231	226	241	244	265	290	330	
4575	96	148	167	196	224	239	255	267	267	281	289	284				
4576	87	145	173	203	226	248	274	270	277	280	294	299				
MEAN	93	143	165	187	212	225	243	248	255	259	269	274	266	288	326	423
S.D.	12.5	13.9	14.1	16.2	15.4	18.5	22.0	22.1	20.7	23.9	23.7	25.1	2.0	5.4	3.8	0.0
N	26	26	26	26	26	26	26	26	26	26	26	26	3	3	3	1

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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
1051	583
1052	567
1053	571
1054	565
1055	630
1056	547
1057	563
1058	511
1059	493
1060	543
1061	592
1062	544
1063	526
1064	517
1065	573
1066	584
1067	560
1068	609
1069	557
1070	578
1071	609
1072	558
1073	471
1074	611
1075	575
1076	565
MEAN	561
S.D.	36.8
N	26

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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
2051	515
2052	576
2053	578
2054	550
2055	565
2056	705
2057	590
2058	534
2059	460
2060	478
2061	508
2062	582
2063	599
2064	501
2065	525
2066	561
2067	613
2068	534
2069	524
2070	554
2071	560
2072	490
2073	556
2074	583
2075	556
2076	564
MEAN	552
S.D.	49.1
N	26

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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
3051	520
3052	410
3053	468
3054	576
3055	602
3056	548
3057	566
3058	496
3059	500
3060	604
3061	535
3062	455
3063	544
3064	549
3065	600
3066	563
3067	553
3068	548
3069	518
3070	494
3071	540
3072	539
3073	530
3074	513
3075	602
3076	595
MEAN	537
S.D.	48.1
N	26

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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
4051	540
4052	547
4053	525
4054	479
4055	502
4056	502
4057	528
4058	501
4059	558
4060	483
4061	612
4062	538
4063	597
4064	483
4065	514
4066	521
4067	536
4068	525
4069	543
4070	481
4071	619
4072	561
4073	486
4074	505
4075	600
4076	544
MEAN	532
S.D.	40.7
N	26

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APPENDIX G P0 GENERATION

GASOLINE ETHANOL 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
3552	292
MEAN	292
S.D.	0.0
N	1

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APPENDIX H P0 GENERATION

GASOLINE ETHANOL 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
1051	76	61	50	47	24	34	26	30	19	10	17	26	14	9	12	-2
1052	79	59	48	35	38	25	21	23	14	27	9	6	16	12	2	17
1053	81	53	53	35	32	23	19	4	11	19	7	25	19	2	12	34
1054	70	59	49	42	33	39	22	21	23	19	13	3	15	17	13	2
1055	83	65	52	57	27	43	37	13	32	23	9	18	13	10	3	15
1056	73	57	45	50	28	40	15	26	21	10	19	9	10	8	3	5
1057	74	53	52	47	38	42	25	9	18	16	8	16	8	5	11	10
1058	66	51	54	46	19	23	23	13	13	32	6	9	14	11	8	10
1059	64	47	38	35	18	36	15	18	8	21	2	17	13	8	5	13
1060	73	61	56	45	30	34	20	18	16	15	10	4	5	5	1	15
1061	68	49	47	48	38	50	29	18	33	26	18	10	-4	21	12	24
1062	76	54	52	40	23	36	20	20	14	19	8	9	5	8	5	17
1063	73	45	51	40	36	39	23	24	18	13	15	8	13	9	4	8
1064	75	57	39	43	27	35	24	22	13	12	11	9	9	16	6	19
1065	77	61	56	35	39	39	21	21	18	18	13	2	12	9	6	7
1066	82	61	52	46	34	35	21	21	18	14	18	6	13	14	4	9
1067	78	53	51	48	28	30	27	2	23	14	21	11	16	16	7	9
1068	83	56	54	50	37	41	11	23	21	31	19	13	8	6	7	18
1069	74	48	47	38	29	38	28	25	9	22	16	1	21	15	10	7
1070	80	66	56	42	33	37	4	38	22	13	11	13	14	14	1	4
1071	76	63	55	39	28	47	17	28	31	22	9	13	15	17	15	14
1072	75	54	58	50	30	37	20	20	15	20	13	15	0	14	8	2
1073	76	50	42	24	22	40	10	11	7	13	8	7	9	8	5	6
1074	82	64	50	61	47	46	25	25	24	26	15	6	20	5	6	8
1075	78	60	50	44	31	40	20	22	11	25	25	4	14	21	2	7
1076	74	58	44	51	36	37	28	22	13	24	14	12	24	13	13	14
MEAN	76	56	50	44	31	37	21	20	18	19	13	10	12	11	7	11
S.D.	4.9	5.9	5.2	7.7	6.7	6.6	6.8	7.8	7.0	6.3	5.4	6.4	6.2	5.1	4.1	7.6
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX H P0 GENERATION

GASOLINE ETHANOL 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 -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
2051	78	53	43	31	33	21	30	18	9	18	9	13	10	8	0	11
2052	76	58	53	40	40	40	24	32	24	24	12	8	14	-12	11	8
2053	78	56	46	36	28	33	25	26	22	14	19	8	12	11	5	22
2054	65	52	47	47	40	35	30	38	7	26	14	14	14	15	7	4
2055	79	58	48	48	27	35	26	27	17	23	12	6	17	7	-4	8
2056	78	64	65	58	37	47	32	27	33	33	24	13	24	14	6	15
2057	70	60	54	42	30	38	29	31	23	18	18	20	30	-2	6	19
2058	76	53	42	33	30	26	21	18	22	14	5	11	15	15	6	13
2059	63	43	45	32	27	29	16	19	11	23	6	8	10	15	-4	9
2060	69	48	47	38	14	26	16	9	12	17	-1	18	19	7	3	10
2061	72	50	43	39	22	31	20	30	17	26	7	2	13	3	6	5
2062	78	59	53	43	27	37	27	10	13	15	19	25	24	12	-3	22
2063	77	59	55	40	24	39	16	29	27	27	11	20	17	1	9	18
2064	81	52	48	35	17	23	9	23	11	15	1	2	25	18	6	2
2065	71	50	51	32	27	39	17	16	24	18	12	10	6	23	2	1
2066	72	55	46	40	31	35	26	28	24	12	9	13	16	9	3	13
2067	86	64	61	42	40	39	17	20	26	19	16	9	4	14	7	8
2068	89	52	49	35	26	33	26	10	18	13	7	10	8	3	1	16
2069	72	53	55	44	32	25	16	20	10	16	8	19	6	11	-1	4
2070	72	50	43	37	24	33	17	27	16	28	10	13	18	11	11	12
2071	64	38	46	38	35	40	31	27	24	28	5	25	17	19	6	9
2072	75	52	53	48	36	31	-44	54	25	29	3	4	-1	16	5	2
2073	78	59	56	38	25	40	26	24	11	28	10	16	7	9	12	11
2074	75	53	48	46	47	33	24	25	14	15	13	5	14	8	18	18
2075	78	51	53	49	40	32	16	24	11	23	21	2	13	11	2	4
2076	80	51	50	43	33	41	13	26	8	16	11	15	17	6	4	13
MEAN	75	53	50	41	30	34	19	24	18	21	11	12	14	10	5	11
S.D.	6.1	5.8	5.7	6.4	7.6	6.3	14.4	9.2	7.1	6.0	6.1	6.7	6.9	7.3	5.2	6.1
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX H P0 GENERATION

GASOLINE ETHANOL 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 -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
3051	67	52	52	46	25	35	12	22	19	12	7	14	12	10	-4	9
3052	75	62	-40	50	-15	23	40	-2	24	15	12	5	15	1	13	2
3053	61	51	39	28	35	35	7	23	3	18	5	-27	-25	47	19	12
3054	67	50	41	39	34	30	23	30	20	25	15	10	19	-1	16	23
3055	70	63	61	39	44	38	16	25	22	19	18	6	26	13	14	0
3056	72	61	53	42	34	47	16	21	11	24	17	-4	9	2	7	5
3057	69	53	61	41	25	38	-21	59	26	22	13	8	12	7	8	11
3058	72	48	43	37	33	30	10	17	12	19	7	12	15	5	8	16
3059	64	61	55	37	15	24	17	23	23	12	6	18	12	8	7	9
3060	78	63	57	56	28	51	20	24	18	39	15	19	14	8	6	6
3061	69	54	43	36	34	35	13	20	20	15	17	10	3	3	13	15
3062	63	48	39	30	24	69	-21	23	16	4	8	6	12	1	1	4
3063	70	59	58	39	29	36	12	21	9	21	14	14	16	11	9	1
3064	60	47	45	33	29	32	26	22	23	24	18	19	13	13	4	17
3065	81	53	50	36	36	49	16	32	20	20	19	10	14	15	7	5
3066	74	44	41	36	32	43	23	24	27	16	21	6	22	19	4	-2
3067	69	48	52	34	31	35	18	24	21	25	16	15	1	6	2	14
3068	68	58	57	46	34	32	20	20	18	13	11	16	22	2	7	18
3069	78	55	47	40	24	30	15	18	16	14	22	4	8	16	-3	11
3070	63	58	47	44	30	35	17	23	16	17	14	5	8	9	12	0
3071	65	59	56	40	37	27	18	27	27	24	10	10	5	7	7	5
3072	69	59	46	43	24	28	21	27	26	16	20	1	13	13	2	-3
3073	65	48	55	44	26	32	22	19	26	24	14	15	15	7	-2	12
3074	71	55	45	38	27	23	25	17	15	14	12	10	16	14	-3	8
3075	72	59	62	36	45	44	17	22	16	17	13	17	14	19	-3	21
3076	77	65	46	52	24	39	27	25	14	22	18	12	5	11	3	16
MEAN	70	55	47	40	29	36	16	23	19	19	14	9	11	10	6	9
S.D.	5.4	5.9	19.0	6.5	10.9	10.0	12.6	9.4	5.8	6.5	4.7	9.2	9.4	9.4	6.2	7.2
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX H P0 GENERATION

GASOLINE ETHANOL 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 -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
4051	70	48	48	38	29	58	-6	22	13	21	9	12	21	12	9	5
4052	74	54	43	47	25	32	16	20	14	20	10	13	14	16	3	12
4053	68	44	38	30	34	43	15	21	16	20	16	14	12	12	17	1
4054	67	44	39	33	15	23	15	18	13	15	14	4	9	15	19	11
4055	71	53	49	39	37	32	11	18	12	20	3	10	1	7	0	11
4056	75	56	51	34	21	26	9	16	15	23	15	1	14	4	10	-2
4057	75	54	47	37	26	42	19	14	17	23	3	2	16	4	4	12
4058	66	50	40	30	24	37	8	18	7	22	14	10	13	3	13	8
4059	86	56	47	42	17	44	28	19	15	21	1	16	22	-8	4	19
4060	69	48	42	38	16	39	19	16	15	15	16	16	5	11	9	0
4061	83	59	61	45	36	36	24	30	15	20	20	10	3	12	4	14
4062	65	49	57	46	31	31	25	26	19	26	15	3	18	8	11	7
4063	74	59	47	52	38	39	25	27	26	22	20	8	21	21	18	8
4064	65	42	41	28	22	37	13	14	17	13	15	15	16	15	2	12
4065	79	62	54	44	18	38	16	15	9	10	5	16	11	13	-2	11
4066	71	42	39	24	32	29	17	26	23	33	5	19	10	16	6	4
4067	73	55	50	34	26	37	26	17	20	27	18	-5	19	23	-7	20
4068	74	49	44	41	32	47	13	18	18	18	17	9	8	7	0	-2
4069	74	56	44	40	32	34	9	22	13	17	13	9	15	15	1	19
4070	69	53	41	31	19	24	14	4	10	28	16	9	12	5	0	10
4071	62	52	52	44	37	40	30	29	25	25	7	20	15	23	13	19
4072	81	51	56	37	29	39	23	23	25	18	15	2	12	17	14	-18
4073	73	44	34	28	20	29	30	15	19	15	12	7	11	10	5	4
4074	71	36	50	40	30	39	17	24	18	23	18	8	12	5	1	8
4075	85	54	53	40	22	29	15	14	24	18	19	20	33	19	7	10
4076	75	46	41	42	30	47	5	30	16	25	15	11	10	17	2	10
MEAN	73	51	46	38	27	37	17	20	17	21	13	10	14	11	6	8
S.D.	6.2	6.3	6.6	6.8	7.0	7.9	8.3	6.0	5.0	5.0	5.5	6.3	6.5	7.2	6.6	8.0
N	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX H P0 GENERATION

GASOLINE ETHANOL 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 0-69	69-84	84-105	0-105
1051	318	39	19	376
1052	299	21	32	352
1053	256	44	49	349
1054	320	18	32	370
1055	359	31	29	418
1056	311	19	15	345
1057	308	24	25	357
1058	279	23	29	331
1059	237	30	27	293
1060	306	9	21	336
1061	357	6	57	419
1062	285	14	30	330
1063	303	21	21	344
1064	282	18	42	342
1065	321	14	22	357
1066	320	19	27	365
1067	298	27	32	357
1068	343	21	31	395
1069	300	22	32	354
1070	321	27	19	366
1071	339	28	46	413
1072	317	15	24	356
1073	226	16	19	261
1074	382	26	18	427
1075	327	17	30	374
1076	327	36	39	401
MEAN	309	22	29	361
S.D.	35.2	8.8	10.1	37.6
N	26	26	26	26

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APPENDIX H P0 GENERATION

GASOLINE ETHANOL 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 0-69	69-84	84-105	0-105
2051	264	23	18	305
2052	346	21	7	375
2053	306	20	37	363
2054	335	27	26	389
2055	320	23	11	354
2056	419	36	35	491
2057	343	50	23	416
2058	264	26	34	323
2059	251	19	20	289
2060	225	37	20	281
2061	285	15	14	314
2062	303	49	31	383
2063	326	38	28	392
2064	233	27	26	287
2065	286	16	27	329
2066	306	29	25	359
2067	345	14	29	388
2068	269	17	20	306
2069	279	24	14	317
2070	285	31	34	351
2071	311	42	33	387
2072	288	4	23	315
2073	317	23	32	372
2074	319	19	44	381
2075	318	14	16	349
2076	293	33	23	348
MEAN	301	26	25	352
S.D.	40.6	11.1	8.8	46.8
N	26	26	26	26

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APPENDIX H P0 GENERATION

GASOLINE ETHANOL 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 0-69	69-84	84-105	0-105
3051	280	26	15	322
3052	171	20	16	207
3053	243	-51	78	270
3054	306	30	38	373
3055	344	32	27	403
3056	326	6	13	345
3057	317	20	26	362
3058	257	26	28	311
3059	274	30	24	328
3060	372	33	19	424
3061	287	12	31	331
3062	239	17	6	262
3063	297	30	21	348
3064	298	32	34	363
3065	330	24	28	381
3066	308	28	20	356
3067	305	16	21	342
3068	311	38	26	375
3069	281	12	24	317
3070	300	13	21	334
3071	325	15	19	358
3072	310	14	12	337
3073	310	30	17	357
3074	271	26	19	316
3075	332	30	37	399
3076	333	17	30	380
MEAN	297	20	25	342
S.D.	39.9	16.8	13.3	46.2
N	26	26	26	26

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APPENDIX H P0 GENERATION

GASOLINE ETHANOL 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 0-69	69-84	84-105	0-105
4051	279	33	25	337
4052	281	27	30	339
4053	276	26	30	332
4054	228	12	44	284
4055	274	10	18	302
4056	265	15	12	291
4057	282	19	21	321
4058	251	24	24	299
4059	289	37	15	340
4060	266	21	21	308
4061	346	14	30	389
4062	326	21	27	373
4063	354	29	47	430
4064	241	31	29	301
4065	270	27	22	318
4066	270	29	26	325
4067	311	14	35	360
4068	296	17	4	317
4069	281	24	34	339
4070	239	21	14	274
4071	341	35	55	430
4072	316	14	14	343
4073	246	19	19	283
4074	294	19	14	327
4075	289	52	36	377
4076	295	21	29	345
MEAN	285	23	26	334
S.D.	32.6	9.4	11.5	40.6
N	26	26	26	26

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APPENDIX H P0 GENERATION

GASOLINE ETHANOL 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
1551	51	25	23	24	21	23	2	5	12	23	-6	151
1552	52	33	22	27	16	15	3	13	7	5	0	140
1553	49	23	25	27	7	25	2	4	19	-3	3	133
1554	62	25	31	30	22	8	16	16	10	-1	10	167
1555	53	30	28	21	22	12	12	10	3	1	12	151
1556	52	28	25	22	12	23	8	11	1	12	-3	140
1557	55	30	20	19	25	23	5	7	17	-2	4	148
1558	42	30	24	12	24	20	-3	15	4	2	6	134
1559	50	33	29	24	15	23	4	6	-1	14	-3	145
1560	52	27	24	18	19	14	9	9	9	11	-4	135
1561	45	24	28	16	29	17	5	12	7	16	-4	151
1562	57	23	27	17	22	11	17	12	2	13	2	145
1563	43	27	17	28	27	3	1	-1	5	10	0	117
1564	61	36	34	29	20	12	13	8	5	1	9	166
1565	54	24	27	19	17	19	2	7	4	10	-8	121
1566	53	36	36	30	18	24	14	13	3	15	5	193
1567	51	17	21	21	20	17	5	11	10	6	4	133
1568	41	29	33	17	3	25	4	3	11	-1	3	127
1569	56	30	27	24	21	7	17	11	8	3	-6	143
1570	35	25	23	14	14	29	13	7	3	9	7	143
1571	46	24	31	31	3	30	4	15	2	15	1	155
1572	54	32	21	20	22	18	12	15	1	25	0	166
1573	59	27	24	34	17	14	15	11	3	9	10	164
1574	58	15	23	21	21	-1	16	11	13	13	-19	114
1575	48	14	20	24	14	3	11	9	3	10	3	110
1576	53	30	13	31	26	12	5	16	1	14	0	147
MEAN	51	27	25	23	18	16	8	10	6	9	1	144
S.D.	6.3	5.7	5.2	5.7	6.7	8.1	5.8	4.2	5.2	7.3	6.6	18.7
N	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX H P0 GENERATION

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

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP II 2000 MG/M3

ANIMAL#	DAY OF STUDY -7-0	0-7	7-14	14-21	21-28	28-35	35-42	42-49	49-56	56-63	63-69	0-69
2551	48	20	24	38	20	22	-1	18	10	12	-3	160
2552	45	25	28	16	25	21	10	0	14	6	-6	140
2553	44	22	20	22	20	14	6	7	5	-1	4	118
2554	56	29	31	20	12	31	5	-3	20	1	5	150
2555	52	37	21	32	22	19	0	17	10	-1	21	177
2556	40	21	27	16	18	12	9	7	3	-1	8	120
2557	59	13	30	22	22	11	10	7	4	-1	13	130
2558	54	35	23	29	15	23	8	15	-7	18	9	166
2559	50	24	24	23	14	16	18	3	9	9	-2	139
2560	45	6	37	13	15	7	11	11	1	2	12	113
2561	52	24	21	24	20	1	21	9	5	12	-5	132
2562	48	20	30	23	17	14	3	7	3	3	6	123
2563	57	27	24	23	16	29	-10	17	9	-4	10	140
2564	48	10	35	22	20	16	-2	12	-2	9	4	124
2565	53	29	20	33	18	20	7	19	10	6	2	164
2566	58	25	25	34	12	14	2	8	2	5	10	137
2567	55	21	31	21	19	43	-12	10	6	9	2	148
2568	50	21	28	22	16	20	-5	9	23	15	-18	130
2569	52	28	28	20	14	20	9	6	-1	13	8	144
2570	52	29	7	31	20	15	-2	26	6	-5	17	144
2571	53	22	24	13	22	18	16	14	-1	15	6	151
2572	56	32	20	27	10	14	11	11	5	6	8	145
2573	55	28	9	24	10	21	11	10	14	4	2	133
2574	49	35	23	26	7	25	4	10	-6	25	2	151
2575	64	32	14	33	8	29	4	8	-15	51	11	175
2576	53	24	12	27	18	25	0	7	-6	21	4	132
MEAN	52	24	24	24	17	19	5	10	5	9	5	142
S.D.	5.3	7.4	7.2	6.5	4.6	8.3	7.9	6.0	8.4	11.5	7.7	16.9
N	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX H P0 GENERATION

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

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP III 10000 MG/M3

ANIMAL#	DAY -7-0	OF STUDY 0-7	7-14	14-21	21-28	28-35	35-42	42-49	49-56	56-63	63-69	0-69
3551	44	29	24	24	18	11	0	13	-6	15	-2	128
3552	47	28	29	13	27	20	5	6	10	11	6	153
3553	47	27	27	27	21	23	-4	27	3	5	16	171
3554	44	26	12	34	9	23	12	-5	21	9	-3	136
3555	42	28	18	8	23	21	4	5	12	2	-9	113
3556	45	29	26	22	24	14	11	10	7	-2	13	152
3557	43	30	28	14	22	17	9	9	2	12	9	151
3558	36	31	16	23	20	27	-7	19	1	9	3	140
3559	62	36	25	22	11	12	7	5	3	6	9	138
3560	42	27	19	36	8	42	-23	21	6	5	11	152
3561	49	27	18	13	20	18	-9	16	11	5	3	122
3562	46	32	26	25	21	31	-11	6	1	11	6	148
3563	46	29	24	22	35	5	5	-2	18	3	-4	134
3564	46	25	17	19	27	-1	11	6	6	-3	6	113
3565	42	27	18	25	22	6	10	3	13	0	9	132
3566	41	34	26	22	7	23	2	5	-1	12	0	128
3567	43	34	26	19	11	22	7	8	2	13	1	142
3568	44	24	29	26	12	20	11	3	17	-1	8	149
3569	40	23	23	13	20	22	6	-9	22	11	-4	125
3570	52	37	40	21	38	7	8	5	21	8	1	185
3571	43	37	25	25	7	28	12	7	5	17	1	163
3572	49	23	35	21	10	20	3	14	3	11	0	139
3573	60	29	34	20	18	20	1	18	8	8	7	162
3574	46	42	16	26	22	15	11	10	11	10	-1	161
3575	46	30	26	9	21	13	11	5	2	17	12	144
3576	32	29	19	22	5	16	9	10	3	9	2	124
MEAN	45	30	24	21	18	18	4	8	8	8	4	143
S.D.	6.1	4.7	6.5	6.6	8.4	9.0	8.5	8.0	7.3	5.4	6.0	17.5
N	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX H P0 GENERATION

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

INDIVIDUAL BODY WEIGHT GAIN (GRAMS)

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	DAY -7-0	OF STUDY 0-7	7-14	14-21	21-28	28-35	35-42	42-49	49-56	56-63	63-69	0-69
4551	48	28	15	29	16	24	3	1	16	1	7	140
4552	54	13	24	22	15	16	1	12	10	3	10	125
4553	53	35	-30	28	12	12	12	10	3	3	5	89
4554	44	23	69	21	22	25	4	4	15	15	-14	184
4555	50	16	19	27	13	24	-4	18	3	3	4	122
4556	45	24	17	27	15	21	-2	11	9	8	3	132
4557	45	20	15	27	9	7	6	7	2	13	9	115
4558	51	29	27	23	16	21	1	15	-2	37	27	193
4559	47	22	18	25	15	7	13	7	3	6	5	120
4560	51	22	35	15	23	20	11	3	3	14	12	158
4561	54	16	35	26	19	26	5	3	5	9	1	145
4562	54	16	22	26	14	8	13	10	-1	1	9	119
4563	52	12	30	4	23	12	0	20	-5	9	5	110
4564	60	22	35	28	18	24	15	9	9	-1	16	173
4565	42	24	19	22	8	25	11	-12	10	9	5	122
4566	42	23	16	46	-11	17	3	5	3	5	11	118
4567	44	25	28	28	-6	24	5	5	-3	16	4	126
4568	50	18	27	22	12	12	5	12	-1	6	2	114
4569	60	21	23	25	27	-5	-4	13	-8	24	-2	114
4570	47	24	19	24	16	3	14	10	8	7	-2	122
4571	48	24	18	20	13	18	8	13	0	5	14	134
4572	52	25	11	30	10	23	7	2	-1	14	1	123
4573	52	26	20	25	-1	33	-4	5	-1	13	-1	114
4574	45	18	25	13	16	13	8	10	-5	15	3	116
4575	53	19	29	28	15	16	13	0	14	7	-5	136
4576	58	28	30	23	22	26	-4	7	3	13	5	154
MEAN	50	22	23	24	14	17	5	8	3	10	5	131
S.D.	5.0	5.2	15.5	7.1	8.6	8.7	6.1	6.5	6.4	8.1	7.6	23.8
N	26	26	26	26	26	26	26	26	26	26	26	26

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APPENDIX I P0 GENERATION

GASOLINE ETHANOL 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
1551	287	305	309	337	405
1552	272	294	301	327	387
1553	279	293	299	324	387
1554	315	344	352	395	458
1556	286	297	306	341	399
1557	280	305	318	342	403
1558	270	286	300	328	385
1559	276	297	310	346	412
1560	267	291	302	332	382
1561	313	333	334	372	446
1562	279	299	306	336	414
1563	235	256	257	295	361
1564	324	351	361	392	423
1565	268	283	289	315	396
1566	324	349	362	382	445
1567	271	288	295	331	406
1568	245	258	258	290	348
1569	306	326	336	372	437
1570	289	311	323	361	412
1571	290	304	317	347	398
1572	304	334	345	382	455
1573	314	334	349	391	465
1574	292	302	313	344	415
1575	248	272	281	315	380
1576x NP	303	322	327	330	317
MEAN	285	305	313	346	409
S.D.	24.0	26.3	28.4	29.7	30.2
N	24	24	24	24	24

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX I P0 GENERATION

GASOLINE ETHANOL 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
2551	298	326	331	353	412
2552	293	321	336	377	447
2553	245	264	267	300	359
2554	285	317	333	365	426
2555	313	344	350	386	462
2556	240	260	273	305	350
2557	276	298	301	335	403
2558	303	327	345	378	451
2559	270	286	294	329	401
2560	277	304	314	347	429
2561	272	298	302	334	412
2562	257	270	280	302	371
2563	276	296	306	335	405
2564	251	272	281	314	350
2565	286	314	318	347	421
2566x NP	289	296	299	302	309
2567	297	326	332	373	437
2568	294	313	321	345	409
2569	288	308	321	345	405
2570	271	301	311	344	405
2571	305	316	324	355	400
2572	281	285	298	328	371
2573	279	287	302	337	409
2574	326	349	368	406	475
2575	324	343	350	383	461
2576	264	291	306	335	388
MEAN	283	305	315	346	410
S.D.	22.3	24.5	25.4	27.1	34.0
N	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX I P0 GENERATION

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

INDIVIDUAL GESTATION BODY WEIGHTS (GRAMS)

GROUP III 10000 MG/M3

	DAY OF GESTATION				
ANIMAL#	0	4	7	14	20
3551	247	274	284	314	329
3552x NP					
3553	342	370	383	420	481
3554	265	286	304	338	401
3555	245	273	286	325	374
3556	266	292	301	329	396
3557	282	312	318	347	418
3558	239	266	275	303	366
3559	301	317	324	353	427
3560	282	307	304	328	418
3561	253	281	294	327	389
3562	274	298	314	349	429
3563	262	280	291	321	374
3564	247	266	270	295	364
3565	245	262	270	296	349
3566	247	265	276	311	378
3567	257	291	298	321	375
3568	277	294	304	339	398
3569	300	317	330	359	383
3570	327	342	350	388	442
3572	279	309	322	365	450
3573	311	333	344	387	467
3574	287	308	314	344	406
3575	328	334	342	365	443
3576	253	277	295	323	387
MEAN	276	298	308	339	402
S.D.	29.4	27.8	27.9	30.5	37.6
N	24	24	24	24	24

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX I P0 GENERATION

GASOLINE ETHANOL 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
4551	284	305	318	353	408
4552	268	295	306	349	434
4553	244	255	263	291	335
4554	312	334	350	380	433
4555	284	299	310	343	425
4556	254	283	291	319	376
4557	249	270	281	309	381
4558	312	332	348	381	462
4559	258	275	283	313	382
4560	292	308	316	346	412
4561	281	297	307	331	384
4562	271	298	307	342	416
4563	268	296	308	335	393
4564	337	364	377	406	432
4565x NP	294	299	307	308	306
4566	245	273	286	319	393
4567	251	269	277	309	381
4569	267	294	301	347	424
4570	263	284	297	325	399
4571	278	295	299	332	398
4573	271	286	294	329	414
4575	286	315	324	352	419
4576	301	315	322	351	418
MEAN	276	297	307	339	405
S.D.	23.9	24.7	26.0	26.5	26.8
N	22	22	22	22	22

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX J P0 GENERATION

GASOLINE ETHANOL 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
1551	18	5	27	68	119
1552	21	8	26	60	114
1553	14	6	25	62	107
1554	29	8	43	63	143
1556	11	9	36	58	113
1557	24	13	25	61	123
1558	16	14	27	58	115
1559	21	13	37	66	136
1560	25	11	30	50	116
1561	20	1	38	74	132
1562	21	7	30	78	135
1563	20	1	38	66	126
1564	28	10	31	31	99
1565	16	5	26	81	128
1566	25	14	20	63	121
1567	17	6	36	75	135
1568	13	-1	33	57	102
1569	20	10	35	65	131
1570	22	12	38	51	123
1571	14	12	30	51	108
1572	30	10	38	73	151
1573	20	15	42	74	152
1574	10	12	30	72	123
1575	24	9	35	65	132
1576x NP	19	5	3	-13	14
MEAN	20	9	32	63	124
S.D.	5.5	4.2	6.0	10.9	13.9
N	24	24	24	24	24

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX J P0 GENERATION

GASOLINE ETHANOL 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
2551	28	6	21	60	114
2552	27	15	41	70	153
2553	18	3	33	59	114
2554	32	16	32	61	141
2555	31	6	36	77	149
2556	20	13	32	45	110
2557	22	3	34	67	127
2558	24	18	33	73	148
2559	16	8	35	72	131
2560	27	10	33	82	152
2561	26	4	32	78	141
2562	13	11	22	69	115
2563	20	10	29	69	129
2564	21	9	33	36	99
2565	28	4	29	74	135
2566x NP	8	2	3	8	20
2567	29	6	40	65	140
2568	19	8	24	64	115
2569	20	13	24	60	116
2570	30	10	33	61	135
2571	11	8	30	45	94
2572	4	13	30	43	90
2573	8	15	35	72	130
2574	22	19	38	69	149
2575	19	7	33	78	138
2576	28	15	29	53	124
MEAN	22	10	32	64	127
S.D.	7.3	4.6	5.1	11.9	18.0
N	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX J P0 GENERATION

GASOLINE ETHANOL 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
3551	26	10	30	15	82
3552x NP					
3553	28	12	37	62	140
3554	21	18	35	63	136
3555	29	13	39	49	129
3556	26	9	28	67	130
3557	30	6	29	71	136
3558	28	9	28	63	127
3559	16	7	30	74	127
3560	25	-3	24	90	137
3561	28	13	33	61	136
3562	24	16	34	80	155
3563	18	11	29	54	112
3564	20	4	25	69	118
3565	16	8	26	53	104
3566	19	11	35	67	131
3567	34	7	23	55	118
3568	18	10	35	59	121
3569	16	14	29	23	82
3570	16	8	38	54	116
3572	30	14	43	85	171
3573	22	11	44	79	155
3574	21	6	30	62	119
3575	7	8	23	79	116
3576	24	18	28	65	134
MEAN	22	10	31	62	126
S.D.	6.2	4.6	5.9	17.1	20.2
N	24	24	24	24	24

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX J P0 GENERATION

GASOLINE ETHANOL 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
4551	21	13	34	55	123
4552	26	12	43	85	166
4553	11	9	27	45	91
4554	22	16	30	53	121
4555	15	10	33	82	141
4556	29	8	28	57	122
4557	21	11	28	72	131
4558	20	16	33	81	149
4559	17	8	30	69	124
4560	15	9	29	66	120
4561	17	10	24	53	103
4562	27	9	35	74	145
4563	29	12	27	58	126
4564	27	13	29	26	95
4565x NP	5	8	1	-2	12
4566	28	13	33	74	148
4567	18	9	32	72	130
4569	28	6	47	76	157
4570	20	13	28	75	136
4571	18	4	33	66	120
4573	15	8	35	85	143
4575	29	9	29	66	133
4576	14	7	29	66	117
MEAN	21	10	32	66	129
S.D.	5.7	3.0	5.1	14.2	18.6
N	22	22	22	22	22

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX K P0 GENERATION

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

INDIVIDUAL MATERNAL LACTATION BODY WEIGHTS (GRAMS)

GROUP I 0 MG/M3

	DAY OF LACTATION					
Animal No.	1	4	7	14	21	28
1551	298	310	323	337	322	291
1552	295	300	328	343	345	310
1553	287	309	318	348	327	279
1554	354	371	381	390	396	383
1555	329	343	354	355	358	312
1556	301	310	330	356	367	320
1557	307	322	337	362	367	324
1558	289	308	316	340	336	307
1559	317	342	351	366	347	312
1560	307	326	329	330	348	317
1561	351	355	368	375	387	345
1562	310	326	331	372	381	312
1563	262	276	299	329	315	300
1564	344	352	376	395	380	353
1565	296	315	325	347	327	318
1566	346	369	370	390	382	333
1567	309	340	351	370	359	303
1568	271	291	308	321	269	284
1569	342	372	386	399	393	365
1570	306	343	361	378	365	327
1571	294	304	315	342	342	318
1572	361	376	379	341	358	355
1573	349	364	381	397	400	385
1574	327	333	336	345	347	323
1575	286	296	319	328	350	302
1576x NP						
MEAN	313	330	343	358	355	323
S.D.	27.4	28.3	26.2	23.9	29.7	27.8
N	25	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX K P0 GENERATION

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

INDIVIDUAL MATERNAL LACTATION BODY WEIGHTS (GRAMS)

GROUP II 2000 MG/M3

	DAY OF LACTATION					
Animal No.	1	4	7	14	21	28
2551	318	323	343	370	370	331
2552	335	335	347	378	387	344
2553	278	293	296	307	296	280
2554	329	354	358	388	379	345
2555	350	353	367	401	374	349
2556	253	276	290	317	310	287
2557	298	309	328	340	342	314
2558	335	336	369	387	401	336
2559	284	314	341	359	348	320
2560	315	340	349	365	359	314
2561	306	319	326	336	330	312
2562	282	295	309	312	324	292
2563	297	327	328	366	370	338
2564	274	292	301	323	315	292
2565	303	295	319	333	326	301
2566x NP						
2567	323	358	363	372	357	335
2568	324	346	356	366	343	304
2569	315	342	355	363	342	312
2570	295	303	311	349	354	318
2571	312	357	351	361	353	329
2572	301	322	328	354	353	330
2573	318	336	346	362	360	330
2574	359	387	390	422	418	389
2575	341	373	388	417	411	363
2576	302	311	327	342	336	304
MEAN	310	328	339	360	354	323
S.D.	24.9	27.7	26.6	30.0	30.4	25.1
N	25	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX K P0 GENERATION

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

INDIVIDUAL MATERNAL LACTATION BODY WEIGHTS (GRAMS)

GROUP III 10000 MG/M3

	DAY OF LACTATION					
Animal No.	1	4	7	14	21	28
3551	289	306	309	324	326	294
3552x NP						
3553	369	382	380	388	381	364
3554	316	321	323	346	338	300
3555	281	296	312	331	316	286
3556	283	303	319	360	356	319
3557	322	324	346	363	383	330
3558	279	279	294	313	311	285
3559	311	341	340	371	347	326
3560	322	342	353	372	339	321
3561	303	310	316	318	337	301
3562	319	334	342	375	363	338
3563	293	306	318	335	331	300
3564	277	280	297	309	306	275
3565	266	274	299	309	291	263
3566	275	288	303	322	327	266
3567	285	290	307	327	321	288
3568	289	309	319	331	351	303
3569	336	344	342	347	349	334
3570	336	351	371	380	378	346
3571	324	340	350	361	351	339
3572	324	340	343	309	386	325
3573	355	368	383	385	338	367
3574	311	338	353	372	356	328
3575	333	364	369	377	357	320
3576	292	321	326	358	344	294
MEAN	308	322	333	347	343	312
S.D.	26.7	29.3	26.4	26.6	24.5	28.2
N	25	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX K P0 GENERATION

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

INDIVIDUAL MATERNAL LACTATION BODY WEIGHTS (GRAMS)

GROUP IV 20000 MG/M3

	DAY OF LACTATION					
Animal No.	1	4	7	14	21	28
4551	323	335	338	343	343	328
4552	315	338	340	338	349	324
4553	262	278	294	311	300	273
4554	344	358	359	379	367	320
4555	302	326	341	344	349	312
4556	289	290	320	336	346	307
4557	271	289	302	327	333	297
4558	333	351	367	403	403	353
4559	291	306	311	315	324	285
4560	309	333	340	315	374	334
4561	304	304	322	326	335	298
4562	312	313	322	361	357	321
4563	316	330	344	359	351	310
4564	362	362	380	407	345	372
4565x NP						
4566	291	294	316	346	337	294
4567	261	278	303	326	319	291
4568	267	281	291	302	300	280
4569	326	328	324	348	363	303
4570	296	305	322	341	325	323
4571	306	314	337	346	322	305
4572	293	314	312	284	334	322
4573	309	327	338	299	370	336
4574	255	262	282	323	331	304
4575	328	336	359	384	369	322
4576	320	336	349	357	343	323
MEAN	303	315	328	341	344	313
S.D.	26.7	26.6	24.5	30.5	23.4	22.3
N	25	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

Huntingdon Life Sciences 00-4203

APPENDIX L P0 GENERATION

GASOLINE ETHANOL 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
1551	12	13	14	-15	-31	-7
1552	5	28	15	3	-35	16
1553	22	9	30	-20	-49	-8
1554	17	9	10	6	-14	28
1555	14	11	1	3	-46	-17
1556	10	20	26	11	-48	19
1557	16	15	26	5	-43	18
1558	18	8	24	-4	-30	17
1559	25	9	15	-19	-35	-5
1560	20	3	1	18	-31	11
1561	4	13	7	12	-42	-6
1562	16	5	41	9	-68	2
1563	14	22	30	-13	-15	39
1564	8	24	19	-15	-27	9
1565	19	10	21	-19	-9	22
1566	23	1	20	-8	-49	-13
1567	32	11	19	-11	-55	-5
1568	20	18	13	-53	15	13
1569	30	14	14	-7	-28	23
1570	36	19	17	-13	-38	21
1571	10	12	27	1	-25	24
1572	16	3	-38	17	-3	-6
1573	15	18	16	3	-14	37
1574	6	3	8	2	-24	-4
1575	10	23	9	22	-48	16
1576x NP						
MEAN	17	13	15	-3	-32	10
S.D.	8.2	7.2	14.5	16.1	18.4	15.6
N	25	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX L P0 GENERATION

GASOLINE ETHANOL 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
2551	5	20	27	0	-40	13
2552	1	12	31	9	-43	9
2553	15	3	11	-12	-16	1
2554	25	4	31	-9	-34	16
2555	2	15	34	-27	-25	-1
2556	22	15	27	-8	-23	34
2557	11	19	12	2	-28	16
2558	1	33	18	14	-65	1
2559	30	28	18	-11	-28	36
2560	25	9	16	-6	-46	-1
2561	13	7	10	-6	-18	6
2562	13	14	3	12	-32	11
2563	30	1	38	4	-32	41
2564	19	8	22	-7	-24	18
2565	-9	24	14	-7	-25	-2
2566x NP						
2567	35	5	8	-14	-22	12
2568	21	10	11	-24	-39	-21
2569	27	13	8	-22	-30	-3
2570	8	7	38	4	-36	23
2571	45	-6	10	-9	-23	17
2572	21	6	26	-1	-23	29
2573	18	10	17	-2	-31	12
2574	28	3	32	-4	-29	31
2575	32	15	29	-6	-48	21
2576	9	16	15	-6	-32	2
MEAN	18	12	20	-5	-31	13
S.D.	12.6	8.6	10.3	10.1	10.8	14.5
N	25	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

Huntingdon Life Sciences 00-4203

APPENDIX L P0 GENERATION

GASOLINE ETHANOL 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
3551	17	3	15	2	-33	4
3552x NP						
3553	13	-2	8	-7	-17	-5
3554	5	3	23	-8	-38	-16
3555	15	17	18	-15	-30	5
3556	20	16	41	-4	-37	36
3557	2	22	17	21	-54	7
3558	0	14	19	-2	-26	6
3559	31	-1	31	-24	-21	16
3560	20	11	19	-33	-18	-1
3561	7	6	2	19	-36	-2
3562	14	9	33	-12	-26	18
3563	13	11	17	-4	-31	6
3564	3	16	12	-3	-31	-3
3565	8	25	10	-18	-28	-3
3566	13	15	20	5	-61	-9
3567	5	17	21	-6	-34	3
3568	20	10	12	20	-49	13
3569	8	-3	6	2	-15	-3
3570	15	20	9	-3	-31	10
3571	16	11	10	-10	-12	15
3572	17	3	-34	77	-61	2
3573	13	15	2	-48	30	12
3574	27	15	19	-16	-28	17
3575	31	4	9	-20	-37	-13
3576	29	5	32	-15	-49	2
MEAN	14	10	15	-4	-31	5
S.D.	8.7	7.6	14.0	22.8	18.2	11.2
N	25	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

Huntingdon Life Sciences 00-4203

APPENDIX L P0 GENERATION

GASOLINE ETHANOL 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
4551	12	3	5	0	-16	5
4552	23	2	-2	11	-25	9
4553	16	16	18	-11	-28	11
4554	14	2	20	-13	-47	-24
4555	25	15	3	4	-37	10
4556	1	30	16	9	-39	18
4557	18	13	26	6	-36	27
4558	18	16	36	1	-51	20
4559	15	5	4	8	-38	-6
4560	24	7	-25	59	-40	25
4561	1	17	5	9	-37	-6
4562	1	9	39	-5	-36	9
4563	14	15	15	-8	-41	-6
4564	0	18	27	-61	27	10
4565x NP						
4566	2	22	30	-9	-44	2
4567	17	25	23	-7	-29	29
4568	14	10	11	-2	-20	14
4569	2	-4	25	14	-60	-23
4570	10	17	20	-16	-2	28
4571	8	23	9	-24	-17	-1
4572	21	-2	-28	49	-11	29
4573	18	12	-39	71	-34	27
4574	7	21	40	8	-27	49
4575	8	23	26	-15	-47	-6
4576	16	12	8	-14	-21	2
MEAN	12	13	12	3	-30	10
S.D.	7.8	8.8	19.9	26.6	17.8	17.2
N	25	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

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APPENDIX M P0 GENERATION

GASOLINE ETHANOL 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
1051	130	109	90	82	68	64	64	62	55	54	56	53	48	45
1052	135	109	90	84	72	63	60	60	56	56	52	51	46	44
1053	137	103	92	77	68	61	60	54	54	54	53	52	50	51
1054	134	107	91	82	70	67	61	59	57	56	55	49	46	43
1055	134	107	87	81	71	64	62	58	55	55	51	45	43	43
1056	131	103	87	78	68	65	60	58	57	61	52	48	46	43
1057	135	107	91	79	75	67	62	56	55	52	50	48	46	47
1058	136	110	98	84	71	64	64	59	57	56	53	51	46	46
1059	130	102	89	79	67	68	63	63	59	58	54	51	46	46
1060	133	108	93	82	70	67	61	59	54	55	53	51	48	45
1061	145	117	98	91	80	76	65	61	59	58	55	50	48	49
1062	119	105	97	82	71	67	62	61	55	56	55	49	50	48
1063	146	116	104	94	85	79	72	71	64	61	61	55	50	45
1064	148	121	103	94	76	75	69	66	60	58	58	55	47	49
1065	136	114	97	84	76	71	65	65	61	57	55	48	46	44
1066	135	112	95	86	73	69	65	61	59	56	55	49	45	43
1067	142	117	104	102	82	77	72	59	63	61	59	53	52	49
1068	137	107	96	90	75	69	64	65	59	61	58	47	46	46
1069	133	105	95	83	74	72	69	64	57	61	56	52	49	47
1070	135	110	96	85	71	68	59	65	62	55	55	48	47	42
1071	141	116	108	95	78	74	70	66	64	60	56	52	SF	49
1072	135	106	96	85	71	68	65	61	57	54	54	49	46	44
1073	132	106	95	82	75	70	66	63	62	58	58	52	48	51
1074	157	123	103	96	82	73	70	64	62	61	58	50	SF	47
1075	148	119	100	94	81	77	69	64	61	64	59	54	47	47
1076	148	126	106	96	79	73	68	63	62	60	58	53	51	47
MEAN	137	111	96	86	74	70	65	62	59	58	55	51	47	46
S.D.	7.8	6.6	6.0	6.7	5.0	4.9	4.0	3.7	3.2	2.9	2.7	2.5	2.1	2.5
N	26	26	26	26	26	26	26	26	26	26	26	26	24	26

SF=Spilled Feeder

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APPENDIX M P0 GENERATION

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

INDIVIDUAL FEED CONSUMPTION (GRAMS/KG/DAY)

MALES GROUP II 2000 MG/M3

ANIMAL#	DAY OF STUDY 0	7	14	21	28	35	42	49	56	63	69	91	98	105
2051	137	112	88	82	71	66	68	64	64	62	57	51	48	50
2052	143	117	100	84	74	67	62	59	56	55	52	43	42	45
2053	132	108	90	79	72	65	61	59	57	54	53	50	47	49
2054	146	124	99	89	76	70	67	65	57	60	56	52	49	47
2055	133	105	83	77	67	65	64	59	55	55	52	50	43	43
2056	137	112	93	83	67	65	60	58	57	52	53	50	44	43
2057	143	119	97	85	73	67	67	62	59	56	53	47	45	46
2058	132	107	89	81	70	65	61	59	58	55	51	49	46	48
2059	142	117	98	85	72	70	66	66	61	61	56	52	52	49
2060	137	111	94	82	70	67	65	62	59	59	58	55	53	51
2061	136	105	88	79	67	67	65	65	59	58	53	50	48	46
2062	138	112	92	81	70	63	62	56	55	54	55	54	44	48
2063	138	110	97	83	70	68	60	60	58	58	54	52	48	46
2064	137	104	95	84	68	65	61	59	59	59	53	55	51	46
2065	137	110	93	84	70	67	64	60	55	56	SF	51	48	45
2066	128	106	86	79	68	63	60	56	54	51	51	47	46	45
2067	134	111	94	80	72	65	63	58	57	54	53	50	46	44
2068	140	114	94	86	75	71	67	62	62	59	59	56	54	52
2069	134	104	92	82	71	65	61	59	55	56	52	51	47	46
2070	132	104	94	85	69	68	67	62	59	60	56	51	50	47
2071	181	111	99	90	78	73	69	66	62	60	55	51	49	49
2072	140	114	98	91	77	72	21	84	69	62	54	53	52	50
2073	146	120	102	90	73	73	70	64	60	59	58	52	50	51
2074	137	113	99	90	80	71	68	64	63	60	58	55	53	52
2075	136	110	94	86	76	70	65	60	57	56	55	48	45	45
2076	133	104	88	82	73	65	63	62	55	53	52	48	46	46
MEAN	139	111	94	84	72	67	63	62	59	57	54	51	48	47
S.D.	9.7	5.4	4.7	3.8	3.5	3.0	8.9	5.3	3.4	3.1	2.4	2.9	3.3	2.7
N	26	26	26	26	26	26	26	26	26	26	25	26	26	26

SF=Spilled Feeder

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APPENDIX M P0 GENERATION

GASOLINE ETHANOL 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
3051	137	80	97	86	70	66	63	60	54	54	53	48	44	48
3052	138	65	26	86	62	75	73	61	62	63	62	53	52	49
3053	128	97	82	74	70	62	58	58	54	53	49	SF	48	49
3054	138	108	88	80	69	64	60	60	55	53	53	46	45	46
3055	141	116	101	87	76	69	62	58	56	55	52	48	46	43
3056	135	108	90	82	70	67	61	59	57	56	55	47	45	44
3057	138	102	88	81	67	66	56	63	59	59	55	52	44	45
3058	149	107	92	83	70	67	62	61	59	57	54	52	47	48
3059	156	118	99	85	72	70	65	62	61	58	53	51	49	48
3060	155	117	93	88	72	69	63	61	55	57	53	46	43	42
3061	131	103	91	85	73	67	64	61	56	56	53	44	47	47
3062	134	99	88	77	67	62	61	61	57	55	55	50	49	48
3063	142	109	102	85	74	66	60	58	54	53	54	48	45	42
3064	146	107	100	88	72	67	66	60	58	57	55	48	46	47
3065	139	109	105	90	84	75	68	63	58	55	53	48	45	44
3066	146	105	99	83	72	67	65	63	60	57	54	51	48	43
3067	137	107	80	85	70	64	62	61	56	56	55	48	44	46
3068	153	122	112	91	81	74	67	64	59	57	55	51	47	49
3069	144	110	93	84	72	67	63	60	60	59	57	53	50	48
3070	158	128	98	94	87	72	65	63	59	56	56	51	48	50
3071	144	116	103	91	78	73	64	62	61	60	55	51	48	47
3072	138	109	98	88	71	68	62	60	62	59	55	51	48	46
3073	149	121	110	90	77	69	63	59	59	58	54	50	46	49
3074	141	112	84	89	79	64	76	60	58	57	55	54	49	48
3075	137	109	98	89	79	72	65	63	60	58	57	54	49	51
3076	136	110	91	86	70	65	65	59	58	55	53	46	45	44
MEAN	142	107	93	86	73	68	64	61	58	57	54	50	47	47
S.D.	7.7	12.7	15.7	4.5	5.6	3.7	4.1	1.8	2.4	2.3	2.3	2.8	2.1	2.4
N	26	26	26	26	26	26	26	26	26	26	26	25	26	26

SF=Spilled Feeder

Huntingdon Life Sciences 00-4203

APPENDIX M P0 GENERATION

GASOLINE ETHANOL 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
4051	140	110	94	86	75	72	67	61	61	60	53	51	50	50
4052	136	104	89	82	68	64	61	56	55	55	50	50	46	47
4053	130	97	84	74	67	62	58	54	54	54	51	45	44	43
4054	137	102	88	85	69	64	61	57	54	57	54	49	50	52
4055	136	102	91	83	71	69	61	61	60	58	55	51	48	50
4056	136	109	95	85	70	68	58	61	57	56	56	47	46	47
4057	136	108	93	81	71	65	62	56	55	54	50	48	47	47
4058	131	104	86	78	67	62	61	57	57	57	54	48	48	BF
4059	140	108	86	80	62	66	63	58	57	55	50	41	44	46
4060	152	114	91	82	69	65	63	59	57	58	56	51	48	46
4061	139	106	90	81	70	63	62	60	57	55	52	48	45	46
4062	151	114	99	89	75	69	65	61	57	57	55	51	48	47
4063	156	120	95	90	76	70	65	61	59	55	55	51	50	47
4064	139	103	93	86	72	72	66	63	61	61	60	52	51	53
4065	144	112	96	87	73	68	64	59	58	56	55	52	49	48
4066	140	107	90	81	74	66	62	60	60	60	54	48	47	45
4067	149	114	99	90	74	68	65	62	58	59	54	53	46	50
4068	134	105	91	87	76	68	63	61	58	57	56	50	46	46
4069	135	105	86	81	70	67	60	60	57	57	52	50	45	49
4070	134	112	94	81	70	68	67	59	58	63	61	55	49	51
4071	138	109	97	89	75	73	68	65	61	59	53	52	48	46
4072	133	100	89	82	68	66	62	60	60	57	55	51	49	45
4073	131	105	85	74	66	64	64	59	58	57	56	49	46	47
4074	139	104	88	81	69	66	60	60	57	58	57	50	46	47
4075	138	103	91	84	71	70	64	61	62	59	57	53	49	49
4076	142	106	89	92	78	73	63	64	65	60	57	54	50	49
MEAN	139	107	91	84	71	67	63	60	58	57	55	50	47	48
S.D.	6.6	5.1	4.2	4.6	3.6	3.0	2.6	2.4	2.6	2.3	2.7	2.9	1.9	2.4
N	26	26	26	26	26	26	26	26	26	26	26	26	26	25

BF=Broken Feeder

Huntingdon Life Sciences 00-4203

APPENDIX M P0 GENERATION

GASOLINE ETHANOL 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
1551	147	115	103	91	85	80	74	70	69	75	66			
1552	153	116	95	92	84	78	78	74	73	70	66			
1553	138	102	96	90	81	82	74	71	73	70	59			
1554	158	114	110	101	90	88	88	77	74	75	68			
1555	152	122	105	96	86	82	79	74	69	68	68	70	71	
1556	145	110	98	91	82	83	77	75	67	70	59			
1557	146	114	103	95	92	87	78	74	70	70	62			
1558	141	109	97	92	88	81	75	73	68	70	67			
1559	146	113	103	96	86	80	78	72	65	72	62			
1560	148	106	99	97	91	81	85	77	75	67	66			
1561	124	95	94	87	86	76	74	71	65	73	55			
1562	149	111	107	96	88	79	82	79	70	72	65			
1563	159	123	105	97	103	84	74	75	70	74	66			
1564	143	111	98	95	88	83	83	79	68	66	66			
1565	157	111	100	93	88	81	78	72	67	65	54			
1566	147	114	107	100	87	84	79	74	70	70	62			
1567	138	100	95	92	84	79	76	74	67	70	63			
1568	157	122	112	106	91	88	84	80	81	73	69			
1569	143	111	102	96	87	80	76	72	66	64	60			
1570	128	106	95	92	87	81	73	70	65	61	63			
1571	146	114	110	100	89	85	85	82	75	77	66			
1572	142	109	102	96	89	83	81	81	76	80	67			
1573	152	107	106	101	88	79	79	74	71	74	66			
1574	140	99	100	94	90	76	83	74	72	76	64			
1575	140	98	99	93	88	77	77	73	69	71	62			
1576	137	109	96	91	85	75	70	73	66	66	59			
MEAN	145	110	101	95	88	81	78	75	70	71	64	70	71	
S.D.	8.6	7.1	5.2	4.0	4.1	3.5	4.3	3.3	3.8	4.3	4.0	0.0	0.0	
N	26	26	26	26	26	26	26	26	26	26	26	1	1	

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APPENDIX M P0 GENERATION

GASOLINE ETHANOL 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
2551	146	108	96	92	87	77	72	73	70	67	63			
2552	131	98	95	87	85	78	74	73	67	64	61			
2553	149	112	99	94	86	79	75	70	75	69	63			
2554	149	111	102	92	83	81	70	69	76	67	66			
2555	143	111	101	97	83	74	75	72	69	66	66			
2556	138	111	101	96	91	84	82	72	71	70	65			
2557	143	105	103	91	90	82	77	68	64	61	64			
2558	143	110	95	87	82	78	70	66	61	62	61			
2559	150	113	100	95	86	77	78	70	71	67	63			
2560	124	94	102	89	81	83	80	72	66	67	66			
2561	140	100	124	88	82	69	73	68	66	65	60			
2562	144	114	110	98	85	77	76	73	67	69	69			
2563	156	112	104	97	84	84	74	73	73	65	61			
2564	151	108	114	101	90	81	80	76	71	68	64			
2565	156	120	110	105	93	87	84	85	74	74	70			
2566	159	144	111	116	105	83	83	73	71	72	67			
2567	148	117	109	95	99	90	79	80	79	75	SF			
2568	143	104	SF	123	83	79	67	71	70	70	51			
2569	151	109	104	93	83	82	75	72	69	70	66			
2570	165	114	105	101	89	80	82	75	70	71	69			
2571	137	103	95	85	81	76	75	72	65	66	66			
2572	152	114	106	100	87	81	79	75	70	67	68			
2573	142	120	97	108	84	81	76	85	85	67	69			
2574	123	98	94	85	78	74	68	64	63	65	62			
2575	148	108	96	92	85	78	68	71	63	80	72			
2576	146	109	94	99	90	86	73	77	71	71	64			
MEAN	145	110	103	97	87	80	76	73	70	68	65			
S.D.	9.5	9.5	7.4	9.0	5.8	4.5	4.8	4.9	5.3	4.1	4.3			
N	26	26	25	26	26	26	26	26	26	26	25			

SF=Spilled Feeder

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APPENDIX M P0 GENERATION

GASOLINE ETHANOL 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
3551	147	124	101	98	94	105	SF	84	76	74	64			
3552	155	168	106	96	93	86	80	76	76	72	65	64	62	59
3553	128	94	93	85	80	81	74	71	64	63	59			
3554	190	107	94	96	82	79	75	72	71	72	64			
3555	188	SF	109	98	96	96	89	75	117	91	66			
3556	154	112	102	93	90	79	76	74	65	67	64			
3557	145	SF	98	100	93	85	79	79	70	69	SF			
3558	150	117	104	99	93	81	74	80	69	70	66			
3559	144	110	91	81	75	71	72	63	62	63	SF			
3560	147	105	97	111	79	76	69	73	64	64	SF			
3561	167	110	99	96	90	71	75	76	69	67	65			
3562	150	112	95	94	89	76	72	67	65	64	64			
3563	158	127	107	98	93	79	79	75	75	70	63			
3564	137	100	92	89	90	75	72	67	67	62	60			
3565	158	114	103	103	89	88	SF	78	77	71	69			
3566	160	125	113	105	91	88	79	76	74	76	66			
3567	163	116	SF	94	85	82	78	71	71	68	SF			
3568	156	133	SF	99	85	83	76	73	74	71	67			
3569	121	80	88	85	83	74	67	62	66	61	57			
3570	152	114	103	93	94	72	71	70	67	64	59			
3571	138	106	96	89	85	86	80	73	70	69	70	63		
3572	158	116	106	95	86	82	75	74	71	70	60			
3573	155	117	104	96	83	77	73	76	73	72	71			
3574	145	121	92	91	84	78	76	71	65	66	61			
3575	136	109	100	89	81	75	69	66	63	67	63			
3576	182	114	98	95	88	88	80	72	71	72	61			
MEAN	153	115	100	95	87	81	75	73	71	69	64	64	62	59
S.D.	16.3	15.9	6.2	6.4	5.4	7.8	4.8	5.0	10.3	5.9	3.7	0.7	0.0	0.0
N	26	24	24	26	26	26	24	26	26	26	22	2	1	1

SF=Spilled Feeder

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APPENDIX M P0 GENERATION

GASOLINE ETHANOL 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
4551	150	114	104	92	84	75	76	69	69	63	61			
4552	154	101	97	93	86	76	74	77	72	75	68			
4553	151	112	79	89	79	73	73	68	63	64	63			
4554	143	107	108	88	86	75	73	72	71	66	62			
4555	133	95	92	89	82	79	77	75	66	65	63			
4556	158	122	107	103	87	83	96	76	78	74	73			
4557	SF	115	95	113	86	77	75	74	69	74	72			
4558	145	109	97	92	82	76	71	70	63	75	77			
4559	149	107	96	107	87	77	76	68	67	67	66			
4560	147	113	99	98	88	82	75	71	69	69	67			
4561	151	115	110	99	95	80	78	76	73	74	70			
4562	142	105	108	110	88	82	105	78	71	70	SF			
4563	139	91	97	87	82	70	76	73	62	64	62			
4564	145	106	97	87	82	77	74	67	67	67	65			
4565	126	100	91	95	87	86	80	67	69	64	66			
4566	172	110	100	115	80	82	77	72	72	72	75			
4567	161	124	102	100	80	80	72	73	71	76	66			
4568	157	120	102	94	85	74	69	66	64	65	60	62		
4569	152	108	91	91	88	65	67	70	61	70	64			
4570	142	109	92	113	81	73	76	73	68	65	64			
4571	148	112	101	98	86	80	80	76	71	72	69			
4572	151	113	98	97	87	81	78	68	68	68	65	67		
4573	139	104	93	93	81	77	70	69	68	71	65			
4574	149	113	102	100	87	83	79	77	70	72	66	63		
4575	145	124	110	97	87	77	78	68	67	66	61			
4576	156	121	104	95	92	81	67	69	66	64	64			
MEAN	148	110	99	97	85	78	77	72	68	69	66	64		
S.D.	9.3	8.3	7.1	8.2	3.8	4.6	8.0	3.6	3.8	4.2	4.4	2.6		
N	25	26	26	26	26	26	26	26	26	26	25	3		

SF=Spilled Feeder

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APPENDIX N - P0 GENERATION

GASOLINE ETHANOL 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
1551	71	74	66	62	68
1552	77	73	64	61	69
1553	69	71	65	60	66
1554	75	74	75	63	72
1556	70	71	69	65	69
1557	76	74	70	66	72
1558	74	76	69	61	70
1559	70	79	75	66	73
1560	67	81	78	65	73
1561	66	61	62	63	63
1562	75	70	71	66	70
1563	79	76	76	73	76
1564	74	75	69	64	71
1565	68	62	61	60	63
1566	75	72	59	64	67
1567	74	74	71	66	71
1568	75	70	73	72	73
1569	68	68	69	63	67
1570	71	69	66	62	67
1571	73	77	74	58	70
1572	80	81	75	65	75
1573	79	17	74	63	58
1574	127	80	75	67	87
1575	82	83	80	73	79
1576x NP	68	70	63	52	63
MEAN	76	71	70	64	70
S.D.	11.7	12.8	5.5	3.8	5.7
N	24	24	24	24	24

NP=NOT PREGNANT x=EXCLUDED FROM MEAN
SF=Spilled Feeder

Huntingdon Life Sciences 00-4203

APPENDIX N - P0 GENERATION

GASOLINE ETHANOL 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
2551	73	71	67	60	68
2552	72	73	70	60	69
2553	76	72	72	67	72
2554	77	85	78	63	76
2555	74	76	70	63	71
2556	78	74	71	64	72
2557	66	70	66	63	66
2558	70	75	69	61	69
2559	66	68	71	63	67
2560	72	73	72	69	71
2561	76	67	69	62	69
2562	72	73	72	67	71
2563	77	78	68	57	70
2564	81	79	76	68	76
2565	82	78	77	67	76
2566x NP	73	67	68	69	69
2567	82	78	76	63	75
2568	67	67	65	62	65
2569	76	70	67	59	68
2570	84	84	73	66	77
2571	61	59	66	62	62
2572	60	64	66	62	63
2573	63	75	75	67	70
2574	69	74	70	65	69
2575	67	66	65	61	65
2576	76	80	66	69	73
MEAN	73	73	70	64	70
S.D.	6.6	6.1	4.0	3.3	4.1
N	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

Huntingdon Life Sciences 00-4203

APPENDIX N - P0 GENERATION

GASOLINE ETHANOL 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
3551	71	79	74	65	72
3552x NP					
3553	69	68	69	60	67
3554	66	82	75	69	73
3555		77	77	62	72
3556	72	73	71	67	71
3557	80	80	75	70	76
3558	76	71	71	69	72
3559	67	69	61	57	63
3560	70	65	75	62	68
3561	77	78	75	66	74
3562	74	87	73	63	74
3563	72	71	69	63	69
3564	69	71	62	61	66
3565	76	77	72	69	73
3566	82	85	83	74	81
3567	77	82	72	63	74
3568	74	77	73	62	71
3569	65	72	70	65	68
3570	65	66	63	57	63
3572	78	81	76	64	75
3573	76	79	75	65	74
3574	68	65	68	56	64
3575	61	63	65	60	62
3576	81	81	78	66	76
MEAN	72	75	72	64	71
S.D.	5.7	6.6	5.3	4.4	4.8
N	23	24	24	24	24

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

Huntingdon Life Sciences 00-4203

APPENDIX N - P0 GENERATION

GASOLINE ETHANOL 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
4551	70	68	69	60	67
4552	76	83	77	63	75
4553	60	66	63	58	62
4554	76	72	67	59	69
4555	72	72	72	66	71
4556	85	78	70	73	77
4557	84	85	76	69	78
4558	69	73	68	55	66
4559	73	68	67	63	68
4560	66	72	67	57	66
4561	73	69	69	61	68
4562	86	80	74	64	76
4563	76	73	67	64	70
4564	71	69	65	58	66
4565x NP	64	69	56	60	62
4566	93	86	76	65	80
4567	79	77	77	69	75
4569	80	82	81	67	78
4570	73	70	68	65	69
4571	73	74	70	65	70
4573	65	70	71	67	68
4575	72	71	67	60	68
4576	72	72	74	66	71
MEAN	75	74	71	63	71
S.D.	7.5	5.8	4.7	4.4	4.8
N	22	22	22	22	22

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

Huntingdon Life Sciences 00-4203

APPENDIX O - P0 GENERATION

GASOLINE ETHANOL 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
1551	95	117	144	193	EF	137
1552	95	129	144	168	EF	134
1553	100	115	138	177	365	179
1554	96	107	132	171	294	160
1555	107	135	164	193	489	218
1556	75	104	132	171	303	157
1557	94	120	154	181	319	174
1558	100	109	151	198	333	178
1559	107	109	148	179	353	179
1560	96	117	137	211	SF	140
1561	110	117	135	182	310	171
1562	102	125	EF	171	303	175
1563	101	115	EF	186	312	178
1564	75	108	124	157	280	149
1565	102	120	EF	193	EF	138
1566	87	102	EF	184	329	175
1567	118	127	EF	180	334	189
1568	113	133	152	195	EF	148
1569	84	106	29	169	294	136
1570	106	118	129	185	321	172
1571	84	111	139	200	334	174
1572	118	120	EF	EF	EF	119
1573	98	115	132	160	313	163
1574	95	119	146	191	392	188
1575	108	160	152	195	352	194
1576x NP						
MEAN	99	118	136	183	333	165
S.D.	11.5	12.3	27.9	13.3	46.6	22.9
N	25	25	19	24	19	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN
EF=Empty Feeder SF=Spilled Feeder

Huntingdon Life Sciences 00-4203

APPENDIX O - P0 GENERATION

GASOLINE ETHANOL 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
2551	93	103	142	163	238	148
2552	87	106	143	169	433	188
2553	116	108	151	184	349	182
2554	97	111	139	172	280	160
2555	109	117	EF	177	321	181
2556	105	128	145	190	346	183
2557	103	120	146	190	334	178
2558	82	116	98	167	269	146
2559	112	121	137	168	283	164
2560	106	124	EF	190	335	189
2561	98	116	137	190	EF	135
2562	102	111	133	167	214	145
2563	100	101	147	175	321	169
2564	106	116	147	214	385	193
2565	71	110	147	198	363	178
2566x NP						
2567	108	132	149	182	EF	143
2568	115	124	143	189	371	188
2569	114	124	EF	189	344	193
2570	79	108	EF	EF	329	172
2571	105	118	EF	177	EF	133
2572	90	110	EF	185	296	170
2573	109	127	152	189	359	187
2574	94	97	EF	145	263	149
2575	100	113	EF	174	312	175
2576	92	126	147	201	386	190
MEAN	100	116	141	181	324	170
S.D.	11.7	9.0	12.3	14.5	52.1	19.3
N	25	25	17	24	22	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN
EF=Empty Feeder

Huntingdon Life Sciences 00-4203

APPENDIX O - P0 GENERATION

GASOLINE ETHANOL 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
3551	114	102	148	185	329	176
3553	72	89	121	167	EF	112
3554	66	87	134	166	EF	113
3555	115	139	EF	227	400	220
3556	84	108	150	183	316	168
3557	100	125	143	170	321	172
3558	90	118	143	181	319	170
3559	108	110	143	192	366	184
3560	105	125	138	184	EF	138
3561	106	123	136	198	EF	141
3562	100	105	148	185	245	157
3563	105	122	157	209	387	196
3564	101	111	138	176	310	167
3565	96	117	136	172	EF	130
3566	105	105	149	186	325	174
3567	88	117	151	184	364	181
3568	85	109	135	175	326	166
3569	51	65	73	94	138	84
3570	81	108	120	168	EF	119
3571	110	118	149	189	EF	141
3572	100	113	EF	200	377	197
3573	116	EF	150	EF	EF	133
3574	90	114	128	180	EF	128
3575	86	110	77	173	EF	112
3576	116	116	169	205	348	191
MEAN	96	111	136	181	325	155
S.D.	16.4	14.7	22.3	23.6	64.3	33.3
N	25	24	23	24	15	25

EF=Empty Feeder

Huntingdon Life Sciences 00-4203

APPENDIX O - P0 GENERATION

GASOLINE ETHANOL 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
4551	92	101	129	173	297	158
4552	112	126	159	EF	EF	132
4553	99	116	139	179	336	174
4554	102	102	138	192	355	178
4555	105	114	131	158	EF	127
4556	159	109	135	170	279	170
4557	106	122	156	CF	EF	128
4558	88	111	129	142	257	145
4559	102	115	EF	193	363	193
4560	87	109	102	186	289	155
4561	95	EF	138	186	EF	140
4562	104	109	142	190	EF	136
4563	108	118	141	193	319	176
4564	102	111	EF	EF	EF	106
4565x NP						
4566	113	127	162	199	352	190
4567	104	120	147	182	320	174
4568	82	109	140	199	374	181
4569	99	104	148	190	317	172
4570	100	112	150	183	EF	136
4571	128	133	151	211	EF	156
4572	89	101	107	184	299	156
4573	112	107	146	202	309	175
4574	108	130	166	203	328	187
4575	90	112	140	165	305	163
4576	107	117	140	182	354	180
MEAN	104	114	141	185	321	160
S.D.	15.3	8.9	15.2	15.8	32.1	23.0
N	25	24	23	22	17	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN
EF=Empty Feeder CF=Contaminated Feeder

	Individual Estrous Cycle and Mating Data Preface	Appendix P

Estrous Stage Codes:

D = Diestrus
P = Proestrus
E = Estrus
M = Metestrus
Ps = Pseudopregnancy

Cycle Codes:

NC = Number of cycles (days)
C_n = Length of cycles (days)
ML = Mean length of cycle
X = Vaginal cycle not discernible
Y = Irregular cycle, length not determined
Z = Irregular cycle (not pseudopregnant)

Mating and Pregnancy Codes:

F = Number of failed mating opportunities
PS = Pregnancy status
P = Pregnant
NP = Not pregnant
a = interpolated date of successful mating
b = animal entered persistent estrus

Notes:

Estrous cycles were evaluated for 21 days (starting on Test Day 49) and then up to successful mating.
/ = point from which the number of days in the estrous cycle is counted.
/C, C, /S or S = evidence of mating

Pre-Mating	Individual Estrous Cycle and Mating Data P_0 Generation	Appendix P

Group 1 - 0 mg/m^3

Animal No.	Pre-Mating Period 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Cycles C_1	C_2	C_3	C_4	C_5	ML	NC
1551	/E	D	D	D	/E	D	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	4	4	Ps			4.0	2
1552	D	D	D	/E	D	D	D	/E	E	D	D	D	P	/E	D	D	D	P	/E	D	D	4	6	5			5.0	3
1553	D	D	D	D	/E	D	D	D	D	D	/E	D	D	D	D	/E	D	D	/E	D	D	6	5	3			4.7	3
1554	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	/E	D	/E	D	D	4	4	4	2	2	3.2	5
1555	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	4	4	4	4		4.0	4
1556	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	4	4	4	4		4.0	4
1557	D	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	/E	M	D	D	/E	D	Ps	4				4.0	1
1558	D	D	D	/E	D	D	D	D	/E	D	D	D	P	/E	D	D	D	P	/E	D	D	5	5	5			5.0	3
1559	D	D	D	/E	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	5	4	4	4		4.3	4
1560	/E	E	D	D	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	8	4	4	4		5.0	4
1561	D	/E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	/E	M	D	Ps					-	-
1562	D	D	/E	D	D	D	/E	E	D	D	D	/E	D	D	D	/E	E	D	D	/E	M	4	5	4	4		4.3	4
1563	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	4	4	4	4		4.0	4
1564	/E	E	D	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	6	4	4	4		4.5	4
1565	D	/E	E	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	6	4	4	4		4.5	4
1566	D	D	D	/E	D	D	/E	E	D	D	D	/E	D	D	D	/E	D	D	P	/E	D	3	5	4	4		4.0	4
1567	D	D	D	/E	D	D	P	/E	D	D	D	/E	D	D	D	/E	D	D	P	/E	D	4	4	4	4		4.0	4
1568	D	D	D	D	D	/E	D	D	D	D	D	/E	D	D	D	D	/E	D	D	D	P	6	5				5.5	2
1569	D	D	D	/E	E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	5	4	4	4		4.3	4
1570	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	4	4	4	4		4.0	4
1571	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	4	4	4	4		4.0	4
1572	D	P	/E	M	D	D	/E	E	D	D	D	D	/E	D	D	D	/E	E	D	D	P	4	6	4			4.7	3
1573	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	4	4	4	4		4.0	4
1574	D	D	/E	D	D	D	/E	D	D	D	D	D	D	D	D	D	/E	D	D	D	/E	4	10	4			6.0	3
1575	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	4	4	4	4		4.0	4
1576	D	/E	E	D	D	D	D	/E	M	D	D	D	/E	D	D	D	/E	E	D	D	D	6	5	4			5.0	3

Number with irregular cycle	0

Mean	4.4	3.5
S.D.	0.6	0.9
N	25	25

Pre-Mating	Individual Estrous Cycle and Mating Data P_0 Generation	Appendix P

Group 2 - 2000 mg/m^3

Animal No.	Pre-Mating Period																					Cycles						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	C_1	C_2	C_3	C_4	C_5	ML	NC
2551	D	D	/E	E	D	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	6	4	4	4		4.5	4
2552	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5
2553	D	D	D	D	/E	D	D	D	D	/E	D	D	D	D	/E	D	D	D	P	/E	D	5	5	5			5.0	3
2554	D	D	D	D	/E	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	5	4	4			4.3	3
2555	D	/E	E	D	D	/E	D	D	D	D	/E	D	D	D	/E	E	D	D	/E	M	D	4	5	4	4		4.3	4
2556	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
2557	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	E	D	D	/E	M	D	4	4	4	4		4.0	4
2558	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	4	4	4	4		4.0	4
2559	D	D	D	P	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4		4.0	4
2560	D	D	/E	M	D	D	/E	M	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	4	4	4	4		4.0	4
2561	D	/E	D	D	D	D	/E	D	D	D	D	/E	D	D	D	P	/E	D	D	D	P	5	5	5			5.0	3
2562	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
2563	D	D	/E	D	D	/E	E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	3	5	4	4		4.0	4
2564	D	D	D	/E	D	D	D	D	/E	D	D	D	P	/E	M	D	D	D	/E	D	D	5	5	5			5.0	3
2565	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4	4		4.0	4
2566	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
2567	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	D	D	/E	E	D	D	D	/E	4	4	6	5		4.8	4
2568	D	/E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	/E	M	D	D	/E	Ps	4				4.0	1
2569	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	4	4	4	4		4.0	4
2570	D	/E	E	D	D	D	/E	D	D	D	/E	D	D	D	/E	E	D	D	/E	M	D	5	4	4	4		4.3	4
2571	D	/E	E	D	D	D	/E	E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	5	5	4	4		4.5	4
2572	/E	D	D	D	D	/E	D	D	D	/E	E	D	D	D	D	/E	M	D	D	/E	M	5	4	6	4		4.8	4
2573	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5
2574	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	/E	E	D	4	4	4	3		3.8	4
2575	D	/E	E	D	D	D	/E	E	M	D	D	D	D	D	D	D	D	D	D	D	D	5	Ps				5.0	1
2576	D	/E	E	D	D	D	D	/E	D	D	D	D	/E	D	D	D	/E	E	D	D	D	6	5	4			5.0	3

Number with irregular cycle	0

Mean	4.3	3.7
S.D.	0.4	0.9
N	26	26

Pre-Mating	Individual Estrous Cycle and Mating Data P_0 Generation	Appendix P

Group 3 - 10000 mg/m^3

Animal No.	Pre-Mating Period 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	Cycles C_1	C_2	C_3	C_4	C_5	ML	NC
3551	D	D	/E	D	D	D	D	/E	M	D	D	D	/E	D	D	D	P	/E	D	D	D	5	5	5			5.0	3
3552	/E	D	D	D	/E	D	D	D	/E	D	D	D	D	/E	D	D	D	/E	E	M	D	4	4	5	4		4.3	4
3553	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	4	4	4	4		4.0	4
3554	/E	D	D	D	D	/E	D	D	D	D	D	D	D	D	D	/E	D	D	D	P	/E	5	10	5			6.7	3
3555	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	/E	E	D	D	D	/E	4	4	4	3	5	4.0	5
3556	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
3557	D	D	/E	D	D	D	D	/E	M	D	D	D	/E	D	D	D	/E	E	D	D	D	5	5	4			4.7	3
3558	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	P	4	4	4	4		4.0	4
3559	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	/E	D	/E	M	D	4	4	4	2	2	3.2	5
3560	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4	4		4.0	4
3561	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4	4		4.0	4
3562	D	D	/E	E	M	D	D	/E	E	D	D	D	D	/E	D	D	D	/E	M	D	D	5	6	4			5.0	3
3563	/E	D	D	D	D	/E	M	D	D	D	D	D	D	D	D	D	D	D	D	D	/E	5	Ps				5.0	1
3564	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	4	4	4	4		4.0	4
3565	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
3566	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	D	4	4	4	4		4.0	4
3567	D	D	D	/E	D	D	D	/E	D	D	D	/E	E	D	D	D	/E	E	D	D	D	4	4	5			4.3	3
3568	/E	D	D	D	/E	E	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	E	D	4	6	4	4		4.5	4
3569	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5
3570	/E	D	D	D	D	/E	D	D	D	/E	E	D	D	D	D	/E	E	D	D	D	P	5	4	6			5.0	3
3571	D	D	D	/E	D	D	D	/E	D	D	D	D	/E	D	D	/E	D	D	D	/E	D	4	5	3	4	Ps	4.0	4
3572	/M	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	3	4	4	4	4	3.8	5
3573	D	D	D	/E	D	D	D	D	/E	D	D	D	P	/E	D	D	D	/E	D	D	D	5	5	4			4.7	3
3574	D	/E	D	D	D	D	/E	M	D	D	D	/E	D	D	D	D	/E	D	D	D	/E	5	5	5	4		4.8	4
3575	D	D	/E	D	D	D	/E	E	D	D	D	D	/E	D	D	D	/E	E	D	D	D	4	6	4	Ps		4.7	3
3576	/E	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	3	4	4	4	4	3.8	5

Number with irregular cycle	0

Mean	4.4	3.8
S.D.	0.7	0.9
N	26	26

Pre-Mating	Individual Estrous Cycle and Mating Data P_0 Generation	Appendix P

Group 4 - 20000 mg/m^3

Animal No.	Pre-Mating Period																					Cycles						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	C_1	C_2	C_3	C_4	C_5	ML	NC
4551	/E	D	D	D	D	/E	D	D	D	/E	D	D	D	D	P	D	D	D	P	/E	D	5	4	5	5		4.8	4
4552	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
4553	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
4554	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5
4555	/E	E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	P	/E	D	D	D	5	4	4	4		4.3	4
4556	D	/E	D	D	/E	E	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	3	5	4	4		4.0	4
4557	D	/E	D	D	D	/E	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	5	4	4		4.3	4
4558	D	D	/E	E	D	D	D	/E	E	D	D	D	D	D	D	D	D	D	D	D	D	5	Ps				5.0	1
4559	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	P	/E	D	D	D	/E	D	4	4	5	4		4.3	4
4560	/E	D	D	D	/E	E	D	D	D	D	D	/E	D	D	D	/E	E	M	D	D	/E	4	7	4	5		5.0	4
4561	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	4	4	4	4		4.0	4
4562	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
4563	D	D	/E	E	D	D	D	P	/E	D	D	D	P	/E	M	D	D	/E	E	D	D	6	5	4			5.0	3
4564	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
4565	D	D	D	/E	D	D	D	/E	M	D	D	/E	D	D	D	/E	D	D	D	/E	M	4	4	4	4		4.0	4
4566	D	D	D	/E	D	D	D	D	/E	D	D	D	D	/E	E	D	D	D	/E	M	D	5	5	5			5.0	3
4567	D	D	D	/E	D	D	D	/E	M	D	D	/E	M	D	D	/E	D	D	D	/E	D	4	4	4	4		4.0	4
4568	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	P	/E	D	D	D	/E	4	4	5	4		4.3	4
4569	D	D	/E	M	D	D	D	/E	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	5	5	4	4		4.5	4
4570	D	/E	D	D	D	/E	E	M	D	D	/E	E	D	D	D	P	/E	M	D	D	P	4	5	6			5.0	3
4571	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	4	4	4	4		4.0	4
4572	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	4	4	4	4		4.0	4
4573	D	D	D	/E	D	D	D	/E	D	D	/E	E	D	D	D	/E	M	D	D	/E	D	4	3	5	4		4.0	4
4574	D	P	/E	D	D	D	/E	E	M	D	D	D	/E	D	D	D	/E	E	D	D	D	4	6	4			4.7	3
4575	D	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	M	D	D	/E	4	4	4	4		4.0	4
4576	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	D	D	D	/E	4	4	4	4	4	4.0	5

Number with irregular cycle	0

Mean	4.3	3.8
S.D.	0.4	0.7
N	26	26

Mating	Individual Estrous Cycle and Mating Data P_0 Generation	Appendix P

Group 1 - 0 mg/m^3

Animal No.	Mating 1	2	3	4	5	6	7	8	9	10	11	12	13	14	F	PS
1551	D	/S													0	P
1552	D	/C													0	P
1553	D	/C													0	P
1554	D	/S													0	P
1555	D	/E	D	D	D	/E	D	D	D	/E	D	D	/P	E	3	P
1556	D	D	/S												0	P
1557	D	/P	S												0	P
1558	D	/S													0	P
1559	D	D	D	/C											0	P
1560	D	D	D	/E	C										0	P
1561	D	/S													0	P
1562	D	D	/S												0	P
1563	D	/E	C												0	P
1564	D	/S													0	P
1565	D	D	/C												0	P
1566	D	/P	S												0	P
1567	D	/P	S												0	P
1568	C														0	P
1569	D	D	D	/S											0	P
1570	D	D	/C												0	P
1571	D	D	/C												0	P
1572	C														0	P
1573	D	/S													0	P
1574	D	D	D	/C											0	P
1575	D	D	/S												0	P
1576	/C														0	NP

Females passing ≥ 1 estrus without mating	1
Number of pregnant females	25

Mating	Individual Estrous Cycle and Mating Data P_0 Generation	Appendix P

Group 2 - 2000 mg/m^3

Animal No.	Mating 1	2	3	4	5	6	7	8	9	10	11	12	13	14	F	PS
2551	D	D	D	/S											0	P
2552	D	D	D	/S											0	P
2553	D	D	/S												0	P
2554	D	D	D	D	D	D	/S								0	P
2555	/P	S													0	P
2556	D	/E	D	D	D	/S									0	P
2557	/E	C													0	P
2558	D	D	/S												0	P
2559	D	D	D	/S											0	P
2560	D	/S													0	P
2561	S														0	P
2562	/P	S													0	P
2563	D	/C													0	P
2564	D	/E	S												0	P
2565	/S														0	P
2566	/S														0	NP
2567	D	D	D	/S											0	P
2568	D	D	D	/S											0	P
2569	D	D	/S												0	P
2570	/E	C													0	P
2571	D	/P	S												0	P
2572	D	D	/S												0	P
2573	D	D	D	/C											0	P
2574	D	D	/S												0	P
2575	D	D	/C												0	P
2576	D	/S													0	P

Females passing ≥ 1 estrus without mating	0
Number of pregnant females	25

Mating	Individual Estrous Cycle and Mating Data P_0 Generation	Appendix P

Group 3 - 10000 mg/m^3

Animal No.	Mating 1	2	3	4	5	6	7	8	9	10	11	12	13	14	F	PS
3551	/P	S													0	P
3552	D	/E	D	D	D	D	/E	D	D	D	/E	M	D	D	3	NP
3553	D	/E	D	D	D	/S									0	P
3554	D	D	D	D	D	/C									0	P
3555	D	D	/P	E	D	D	D	/S							0	P
3556	D	/S													0	P
3557	/E	S													0	P
3558	C														0	P
3559	D	/S													0	P
3560	/S														0	P
3561	/S														0	P
3562	D	/C													0	P
3563	D	D	D	/P	S										0	P
3564	D	/S													0	P
3565	D	/S													0	P
3566	D	D	/C												0	P
3567	/P	S													0	P
3568	D	D	/C												0	P
3569	D	D	D	/C											0	P
3570	C														0	P
3571	D	D	D	D	Da	D	D	D	D	D	D	D	D	D	0	P
3572	D	D	/C												0	P
3573	/E	S													0	P
3574	S														0	P
3575	D	D	D	D	D	D	D	D	D	D	D	/S			0	P
3576	D	D	/S												0	P

Females passing ≥ 1 estrus without mating	1
Number of pregnant females	25

Mating	Individual Estrous Cycle and Mating Data P_0 Generation	Appendix P

Group 4 - 20000 mg/m^3

Animal No.	Mating 1	2	3	4	5	6	7	8	9	10	11	12	13	14	F	PS
4551	D	D	/C												0	P
4552	D	/E	D	D	D	/C									0	P
4553	D	/C													0	P
4554	D	D	/P	C											0	P
4555	/C														0	P
4556	/C														0	P
4557	D	/C													0	P
4558	D	/C													0	P
4559	D	/P	C												0	P
4560	D	/E	D	D	D	/E	C								1	P
4561	/C														0	P
4562	D	/C													0	P
4563	D	/P	S												0	P
4564	D	/C													0	P
4565	D	/S													0	NP
4566	D	D	/S												0	P
4567	D	D	/C												0	P
4568	D	D	D	/E	Da	D	D	D	D	D	D	D	D	D	0	P
4569	D	D	D	/S											0	P
4570	S														0	P
4571	D	/S													0	P
4572	D	D	/E	D	D	D	/E	M	Da	D	D	D	D	D	1	P
4573	D	D	/C												0	P
4574	/E	E	M	Da	D	D	D	D	D	D	D	D	D	D	0	P
4575	D	D	D	/C											0	P
4576	D	D	D	/C											0	P

Females passing ≥ 1 estrus without mating	2
Number of pregnant females	25

Huntingdon Life Sciences 00-4203

APPENDIX Q P0 GENERATION

GASOLINE ETHANOL 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	DELIVERY DATE
1551	1051		+	P	31-MAR-02	2-APR-02	23-APR-02
1552	1052		+	P	31-MAR-02	2-APR-02	24-APR-02
1553	1053		+	P	31-MAR-02	2-APR-02	24-APR-02
1554	1054		+	P	31-MAR-02	2-APR-02	24-APR-02
1555	1055		-	P	31-MAR-02		6-MAY-02
1556	1056		+	P	31-MAR-02	3-APR-02	25-APR-02
1557	1057		+	P	31-MAR-02	3-APR-02	24-APR-02
1558	1058		+	P	31-MAR-02	2-APR-02	24-APR-02
1559	1059		+	P	31-MAR-02	4-APR-02	26-APR-02
1560	1060		+	P	31-MAR-02	5-APR-02	27-APR-02
1561	1061		+	P	31-MAR-02	2-APR-02	24-APR-02
1562	1062		+	P	31-MAR-02	3-APR-02	25-APR-02
1563	1063		+	P	31-MAR-02	3-APR-02	25-APR-02
1564	1064		+	P	31-MAR-02	2-APR-02	24-APR-02
1565	1065		+	P	31-MAR-02	3-APR-02	25-APR-02
1566	1066		+	P	31-MAR-02	3-APR-02	25-APR-02
1567	1067		+	P	31-MAR-02	3-APR-02	25-APR-02
1568	1068		+	P	31-MAR-02	1-APR-02	23-APR-02
1569	1069		+	P	31-MAR-02	4-APR-02	26-APR-02
1570	1070		+	P	31-MAR-02	3-APR-02	25-APR-02
1571	1071		+	P	31-MAR-02	3-APR-02	25-APR-02
1572	1072		+	P	31-MAR-02	1-APR-02	23-APR-02
1573	1073		+	P	31-MAR-02	2-APR-02	24-APR-02
1574	1074		+	P	31-MAR-02	4-APR-02	26-APR-02
1575	1075		+	P	31-MAR-02	3-APR-02	25-APR-02
1576	1076		+	NP	31-MAR-02	1-APR-02	

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

NP=NOT PREGNANT P=PREGNANT

Huntingdon Life Sciences 00-4203

APPENDIX Q P0 GENERATION

GASOLINE ETHANOL 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	DELIVERY DATE
2551	2051		+	P	31-MAR-02	4-APR-02	26-APR-02
2552	2052		+	P	31-MAR-02	4-APR-02	26-APR-02
2553	2053		+	P	31-MAR-02	3-APR-02	25-APR-02
2554	2054		+	P	31-MAR-02	7-APR-02	29-APR-02
2555	2055		+	P	31-MAR-02	2-APR-02	24-APR-02
2556	2056		+	P	31-MAR-02	6-APR-02	28-APR-02
2557	2057		+	P	31-MAR-02	2-APR-02	24-APR-02
2558	2058		+	P	31-MAR-02	3-APR-02	24-APR-02
2559	2059		+	P	31-MAR-02	4-APR-02	26-APR-02
2560	2060		+	P	31-MAR-02	2-APR-02	24-APR-02
2561	2061		+	P	31-MAR-02	1-APR-02	23-APR-02
2562	2062		+	P	31-MAR-02	2-APR-02	24-APR-02
2563	2063		+	P	31-MAR-02	2-APR-02	24-APR-02
2564	2064		+	P	31-MAR-02	3-APR-02	26-APR-02
2565	2065		+	P	31-MAR-02	1-APR-02	24-APR-02
2566	2066		+	NP	31-MAR-02	1-APR-02	
2567	2067		+	P	31-MAR-02	4-APR-02	26-APR-02
2568	2068		+	P	31-MAR-02	4-APR-02	26-APR-02
2569	2069		+	P	31-MAR-02	3-APR-02	25-APR-02
2570	2070		+	P	31-MAR-02	2-APR-02	24-APR-02
2571	2071		+	P	31-MAR-02	3-APR-02	25-APR-02
2572	2072		+	P	31-MAR-02	3-APR-02	25-APR-02
2573	2073		+	P	31-MAR-02	4-APR-02	26-APR-02
2574	2074		+	P	31-MAR-02	3-APR-02	24-APR-02
2575	2075		+	P	31-MAR-02	3-APR-02	25-APR-02
2576	2076		+	P	31-MAR-02	2-APR-02	24-APR-02

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

NP=NOT PREGNANT P=PREGNANT

Huntingdon Life Sciences 00-4203

APPENDIX Q P0 GENERATION

GASOLINE ETHANOL 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	DELIVERY DATE
3551	3051		+	P	31-MAR-02	2-APR-02	24-APR-02
3552	3052		-	NP	31-MAR-02		
3553	3053		+	P	31-MAR-02	6-APR-02	28-APR-02
3554	3054		+	P	31-MAR-02	6-APR-02	27-APR-02
3555	3055		+	P	31-MAR-02	8-APR-02	1-MAY-02
3556	3056		+	P	31-MAR-02	2-APR-02	24-APR-02
3557	3057		+	P	31-MAR-02	2-APR-02	24-APR-02
3558	3058		+	P	31-MAR-02	1-APR-02	23-APR-02
3559	3059		+	P	31-MAR-02	2-APR-02	24-APR-02
3560	3060		+	P	31-MAR-02	1-APR-02	23-APR-02
3561	3061		+	P	31-MAR-02	1-APR-02	23-APR-02
3562	3062		+	P	31-MAR-02	2-APR-02	24-APR-02
3563	3063		+	P	31-MAR-02	5-APR-02	27-APR-02
3564	3064		+	P	31-MAR-02	2-APR-02	24-APR-02
3565	3065		+	P	31-MAR-02	2-APR-02	24-APR-02
3566	3066		+	P	31-MAR-02	3-APR-02	25-APR-02
3567	3067		+	P	31-MAR-02	2-APR-02	24-APR-02
3568	3068		+	P	31-MAR-02	3-APR-02	25-APR-02
3569	3069		+	P	31-MAR-02	4-APR-02	26-APR-02
3570	3070		+	P	31-MAR-02	1-APR-02	23-APR-02
3571	3071		-	P	31-MAR-02		25-APR-02
3572	3072		+	P	31-MAR-02	3-APR-02	25-APR-02
3573	3073		+	P	31-MAR-02	2-APR-02	24-APR-02
3574	3074		+	P	31-MAR-02	1-APR-02	23-APR-02
3575	3075		+	P	31-MAR-02	12-APR-02	3-MAY-02
3576	3076		+	P	31-MAR-02	3-APR-02	25-APR-02

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

NP=NOT PREGNANT P=PREGNANT

Huntingdon Life Sciences 00-4203

APPENDIX Q P0 GENERATION

GASOLINE ETHANOL 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	DELIVERY DATE
4551	4051		+	P	31-MAR-02	3-APR-02	25-APR-02
4552	4052		+	P	31-MAR-02	6-APR-02	28-APR-02
4553	4053		+	P	31-MAR-02	2-APR-02	24-APR-02
4554	4054		+	P	31-MAR-02	4-APR-02	26-APR-02
4555	4055		+	P	31-MAR-02	1-APR-02	22-APR-02
4556	4056		+	P	31-MAR-02	1-APR-02	23-APR-02
4557	4057		+	P	31-MAR-02	2-APR-02	24-APR-02
4558	4058		+	P	31-MAR-02	2-APR-02	23-APR-02
4559	4059		+	P	31-MAR-02	3-APR-02	25-APR-02
4560	4060		+	P	31-MAR-02	7-APR-02	29-APR-02
4561	4061		+	P	31-MAR-02	1-APR-02	23-APR-02
4562	4062		+	P	31-MAR-02	2-APR-02	24-APR-02
4563	4063		+	P	31-MAR-02	3-APR-02	25-APR-02
4564	4064		+	P	31-MAR-02	2-APR-02	24-APR-02
4565	4065		+	NP	31-MAR-02	2-APR-02	
4566	4066		+	P	31-MAR-02	3-APR-02	25-APR-02
4567	4067		+	P	31-MAR-02	3-APR-02	24-APR-02
4568	4068		-	P	31-MAR-02		26-APR-02
4569	4069		+	P	31-MAR-02	4-APR-02	26-APR-02
4570	4070		+	P	31-MAR-02	1-APR-02	23-APR-02
4571	4071		+	P	31-MAR-02	2-APR-02	24-APR-02
4572	4072		-	P	31-MAR-02		29-APR-02
4573	4073		+	P	31-MAR-02	3-APR-02	25-APR-02
4574	4074		-	P	31-MAR-02		24-APR-02
4575	4075		+	P	31-MAR-02	4-APR-02	26-APR-02
4576	4076		+	P	31-MAR-02	4-APR-02	26-APR-02

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

NP=NOT PREGNANT P=PREGNANT

Huntingdon Life Sciences 00-4203

APPENDIX R P0 GENERATION

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

INDIVIDUAL DELIVERY AND LITTER DATA

GROUP I 0 MG/M3

	LITTER DELIVERED			NUMBER OF LIVE PUPS DAYS												TOTAL IMPLAN-	DURATION OF GESTATION
				1		4		7		14		21		28		TATIONS	(DAYS)
FEMALE#	LIVE N	DEAD N	TOTAL N	M	F	M	F	M	F	M	F	M	F	M	F	N	N
1551	10	1	11	4	6	4	6	4	6	4	6	4	6	4	6	16	21
1552	16	0	16	5	11	5	11	5	5	5	5	5	5	5	5	16	22
1553	14	0	14	9	5	9	5	5	5	5	5	5	5	5	5	14	22
1554	13	0	13	8	5	8	5	5	5	5	5	5	5	5	5	15	22
1555 PNMD	13	0	13	7	6	7	6	5	5	5	5	5	5	5	5	15	no day 0
1556	13	0	13	5	8	5	7	5	5	5	5	5	5	5	5	14	22
1557	12	0	12	9	3	9	3	7	3	7	3	7	3	7	3	13	21
1558	12	0	12	3	9	3	9	3	7	3	7	3	7	3	7	14	22
1559	15	0	15	7	8	7	8	5	5	5	5	5	5	5	5	15	22
1560	11	0	11	3	8	3	8	3	7	3	7	3	7	3	7	12	22
1561	15	0	15	11	4	11	4	6	4	6	4	6	4	6	4	15	22
1562	14	1	15	7	6	7	6	5	5	5	5	5	5	5	5	15	22
1563	13	0	13	7	6	7	6	5	5	5	5	5	5	5	5	14	22
1564	7	1	8	3	4	3	4	3	4	3	4	3	4	3	4	13	22
1565	15	0	15	6	9	6	9	5	5	5	5	5	5	5	5	16	22
1566	12	1	13	7	5	7	5	5	5	5	5	5	5	5	5	15	22
1567	15	1	16	3	12	3	12	3	7	3	7	3	7	3	7	16	22
1568	12	0	12	5	7	5	7	5	5	5	5	5	5	5	5	14	22
1569	13	0	13	6	7	6	7	5	5	5	5	5	5	5	5	13	22
1570	13	0	13	8	5	8	5	5	5	5	5	5	5	5	5	15	22
1571	13	0	13	5	8	5	8	5	5	5	5	5	5	5	5	13	22
1572	15	0	15	9	6	9	6	5	5	5	5	5	5	5	5	16	22
1573	15	0	15	8	6	8	6	5	5	5	5	5	5	5	5	16	22
1574	13	0	13	7	6	7	6	5	5	5	5	5	5	5	5	13	22
1575	11	0	11	8	3	8	3	7	3	7	3	7	3	7	3	12	22
1576x NP																	
MEAN	13.0	0.2	13.2	6.4	6.5	6.4	6.5	4.8	5.0	4.8	5.0	4.8	5.0	4.8	5.0	14.4	21.9
S.D.	2.0	0.4	1.8	2.2	2.2	2.2	2.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	0.3
N	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24

NP=NOT PREGNANT PNMD=PREGNANT, NO MATING DATE x=EXCLUDED FROM MEAN

DAY 4 COLUMN = PRECULLING

DEAD = STILLBORN AND CANNIBALIZED PUPS ONLY

Huntingdon Life Sciences 00-4203

APPENDIX R P0 GENERATION

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

INDIVIDUAL DELIVERY AND LITTER DATA

GROUP II 2000 MG/M3

	LITTER DELIVERED			NUMBER OF LIVE PUPS DAYS												TOTAL IMPLAN-	DURATION OF GESTATION
				1		4		7		14		21		28		TATIONS	(DAYS)
FEMALE#	LIVE N	DEAD N	TOTAL N	M	F	M	F	M	F	M	F	M	F	M	F	N	N
2551	13	0	13	6	7	6	7	5	5	5	5	5	5	5	5	14	22
2552	16	0	16	9	7	9	7	5	5	5	5	5	5	5	5	16	22
2553	14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	16	22
2554	14	0	14	6	8	6	8	5	5	5	5	5	5	5	5	15	22
2555	16	1	17	7	9	7	9	5	5	5	5	5	5	5	5	17	22
2556	12	0	12	7	5	7	5	5	5	5	5	5	5	5	5	14	22
2557	14	0	14	8	6	8	6	5	5	5	5	5	5	5	5	15	22
2558	15	0	15	7	8	7	7	5	5	5	5	5	5	5	5	16	21
2559	17	0	17	5	12	5	12	5	5	5	5	5	5	5	5	17	22
2560	16	0	16	3	13	3	13	3	7	3	7	3	7	3	7	16	22
2561	14	0	14	10	4	9	4	6	4	6	4	6	4	6	4	16	22
2562	12	0	12	7	5	7	5	5	5	5	5	5	5	5	5	12	22
2563	15	0	15	9	6	9	6	5	5	5	5	5	5	5	5	17	22
2564	11	0	11	5	6	5	6	5	5	5	5	5	5	5	5	14	23
2565	14	0	14	11	3	11	3	7	3	7	3	7	3	7	3	15	23
2566x NP																	
2567	13	1	14	7	6	7	6	5	5	5	5	5	5	5	5	15	22
2568	13	0	13	9	4	9	4	6	4	6	4	6	4	6	4	13	22
2569	14	0	14	1	12	1	12	1	9	1	9	1	9	1	9	16	22
2570	11	1	12	6	5	6	5	5	5	5	5	5	5	5	5	17	22
2571	11	1	12	7	4	7	4	6	4	6	4	6	4	6	4	12	22
2572	8	0	8	4	4	4	4	4	4	4	4	4	4	4	4	8	22
2573	14	0	14	7	7	7	7	5	5	5	5	5	5	5	5	14	22
2574	16	1	17	8	8	8	8	5	5	5	5	5	5	5	5	17	21
2575	16	0	16	7	8	7	8	5	5	5	5	5	5	5	5	17	22
2576	12	0	12	6	6	6	6	5	5	5	5	5	5	5	5	15	22
MEAN	13.6	0.2	13.8	6.7	6.9	6.6	6.8	4.9	5.0	4.9	5.0	4.9	5.0	4.9	5.0	15.0	22.0
S.D.	2.1	0.4	2.1	2.2	2.6	2.1	2.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	0.4
N	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

NP=NOT PREGNANT x=EXCLUDED FROM MEAN

DAY 4 COLUMN = PRECULLING

DEAD = STILLBORN AND CANNIBALIZED PUPS ONLY

Huntingdon Life Sciences 00-4203

APPENDIX R P0 GENERATION

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

INDIVIDUAL DELIVERY AND LITTER DATA

GROUP III 10000 MG/M3

	LITTER DELIVERED			NUMBER OF LIVE PUPS DAYS												TOTAL IMPLAN-	DURATION OF GESTATION
				1		4		7		14		21		28		TATIONS	(DAYS)
FEMALE#	LIVE N	DEAD N	TOTAL N	M	F	M	F	M	F	M	F	M	F	M	F	N	N
3551	11	0	11	7	4	7	3	7	3	7	3	7	3	7	3	15	22
3552xNNMD																	
3553	14	0	14	4	10	4	10	4	6	4	6	4	6	4	6	14	22
3554	12	1	13	5	7	5	7	5	5	5	5	5	5	5	5	14	21
3555	12	0	12	7	5	7	5	5	5	5	5	5	5	5	5	12	23
3556	13	0	13	7	5	7	5	5	5	5	5	5	5	5	5	14	22
3557	15	0	15	9	6	9	6	5	5	5	5	5	5	5	5	15	22
3558	13	0	13	3	10	3	10	3	7	3	7	3	7	3	7	15	22
3559	15	0	15	8	7	8	7	5	5	5	5	5	5	5	5	16	22
3560	16	0	16	10	6	10	6	5	5	5	5	5	5	5	5	17	22
3561	12	0	12	5	7	5	7	5	5	5	5	5	5	5	5	15	22
3562	16	0	16	10	6	10	6	5	5	5	5	5	5	5	5	17	22
3563	12	0	12	7	5	7	5	5	5	5	5	5	5	5	5	13	22
3564	13	0	13	7	6	7	6	5	5	5	5	5	5	5	5	14	22
3565	11	0	11	3	8	3	8	3	7	3	7	3	7	3	7	15	22
3566	15	0	15	5	10	5	9	5	5	5	5	5	5	5	5	15	22
3567	12	0	12	6	6	6	6	5	5	5	5	5	5	5	5	13	22
3568	15	0	15	9	6	9	6	5	5	5	5	5	5	5	5	16	22
3569	5	0	5	1	2	1	2	1	2	1	2	1	2	1	2	15	22
3570	14	0	14	5	9	5	9	5	5	5	5	5	5	5	5	14	22
3571 PNMD	15	0	15	7	8	7	8	5	5	5	5	5	5	5	5	15	no day 0
3572	16	0	16	9	7	9	7	5	5	5	5	5	5	5	5	16	22
3573	15	0	15	4	11	4	11	4	6	4	6	4	6	4	6	16	22
3574	13	0	13	8	5	8	5	5	5	5	5	5	5	5	5	16	22
3575	15	0	15	6	9	6	9	5	5	5	5	5	5	5	5	17	21
3576	14	0	14	8	6	8	6	5	5	5	5	5	5	5	5	14	22
MEAN	13.4	0.0	13.4	6.4	6.8	6.4	6.8	4.7	5.0	4.7	5.0	4.7	5.0	4.7	5.0	14.9	22.0
S.D.	2.3	0.2	2.3	2.3	2.1	2.3	2.1	1.1	1.0	1.1	1.0	1.1	1.0	1.1	1.0	1.3	0.4
N	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24

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

DAY 4 COLUMN = PRECULLING

DEAD = STILLBORN AND CANNIBALIZED PUPS ONLY

Huntingdon Life Sciences 00-4203

APPENDIX R P0 GENERATION

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

INDIVIDUAL DELIVERY AND LITTER DATA

GROUP IV 20000 MG/M3

	LITTER DELIVERED			NUMBER OF LIVE PUPS DAYS												TOTAL IMPLAN-	DURATION OF GESTATION
				1		4		7		14		21		28		TATIONS	(DAYS)
FEMALE#	LIVE N	DEAD N	TOTAL N	M	F	M	F	M	F	M	F	M	F	M	F	N	N
4551	13	0	13	10	3	10	3	7	3	7	3	7	3	7	3	14	22
4552	17	0	17	13	4	13	4	6	4	6	4	6	4	6	4	17	22
4553	11	0	11	6	5	6	5	5	5	5	5	5	5	5	5	11	22
4554	12	0	12	6	6	6	6	5	5	5	5	5	5	5	5	13	22
4555	16	0	16	9	7	9	7	5	5	5	5	5	5	5	5	18	21
4556	13	0	13	4	8	4	8	3	6	3	6	2	6	2	6	14	22
4557	14	0	14	7	7	7	6	5	5	5	5	5	5	5	5	14	22
4558	15	0	15	8	7	8	6	5	5	5	5	5	5	5	5	16	21
4559	15	0	15	6	8	6	8	5	5	5	5	5	5	5	5	15	22
4560	13	1	14	9	4	9	4	6	4	6	4	6	4	6	4	16	22
4561	11	0	11	4	7	4	7	4	6	4	6	4	6	4	6	11	22
4562	16	0	16	9	7	9	7	5	5	5	5	5	5	5	5	16	22
4563	12	0	12	4	8	4	8	4	6	4	6	4	6	4	6	16	22
4564	14	0	14	11	3	11	3	7	3	7	3	7	3	7	3	16	22
4565x NP																	
4566	16	0	16	4	12	4	12	4	6	4	6	4	6	4	6	16	22
4567	15	0	15	7	8	6	7	5	5	5	5	5	5	5	5	16	21
4568 PNMD	11	0	11	5	6	5	6	5	5	5	5	5	5	5	5	13	no day 0 pc
4569	17	0	17	7	10	7	10	5	5	5	5	5	5	5	5	17	22
4570	14	0	14	3	11	3	11	3	7	3	7	3	7	3	7	14	22
4571	13	1	14	9	4	9	4	6	4	6	4	6	4	6	4	14	22
4572 PNMD	12	1	13	7	5	7	5	5	5	5	5	5	5	5	5	16	no day 0 pc
4573	15	0	15	7	8	7	8	5	5	5	5	5	5	5	5	15	22
4574 PNMD	15	0	15	6	9	6	9	5	5	5	5	5	5	5	5	16	no day 0 pc
4575	15	0	15	7	8	7	8	5	5	5	5	5	5	5	5	16	22
4576	15	0	15	9	6	9	6	5	5	5	5	5	5	5	5	15	22
MEAN	14.0	0.1	14.1	7.1	6.8	7.0	6.7	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	15.0	21.9
S.D.	1.8	0.3	1.8	2.4	2.3	2.4	2.3	1.0	0.9	1.0	0.9	1.1	0.9	1.1	0.9	1.7	0.4
N	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	22

NP=NOT PREGNANT PNMD=PREGNANT, NO MATING DATE x=EXCLUDED FROM MEAN

DAY 4 COLUMN = PRECULLING

DEAD = STILLBORN AND CANNIBALIZED PUPS ONLY

Huntingdon Life Sciences 00-4203

APPENDIX S F1 GENERATION

GASOLINE ETHANOL 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
1551	MS	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FK28												
1552	MK28	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FK28	FK28	FC 4	FC 4	FC 4	FC 4	FC 4	FK28							
1553	MC 4	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28									
1554	MK28	MK28	MC 4	MK28	MC 4	MC 4	MK28	MK28	FK28	FK28	FK28	FK28	FK28										
1555	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	FC 4	FK28	FK28	FK28	FK28	FK28										
1556	MK28	MK28	MK28	MK28	MK28	FM 2	FK28	FC 4	FK28	FK28	FK28	FK28	FC 4										
1557	MC 4	MK28	MC 4	MK28	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28											
1558	MK28	MK28	MK28	FK28	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28	FK28											
1559	MC 4	MK28	MK28	MK28	MC 4	MK28	MK28	FC 4	FC 4	FK28	FK28	FC 4	FK28	FK28	FK28								
1560	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FC 4	FK28	FK28												
1561	MK28	MK28	MK28	MC 4	MC 4	MC 4	MC 4	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FK28								
1562	US	MK28	MM 1	MC 4	MK28	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FC 4	FK28	FK28								
1563	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FC 4	FK28	FK28										
1564	FS	MK28	MK28	MK28	FK28	FK28	FK28	FK28															
1565	MK28	MK28	MK28	MK28	MC 4	MK28	FC 4	FK28	FK28	FK28	FK28	FK28	FC 4	FC 4	FC 4								
1566	MS	MK28	MK28	MK28	MC 4	MK28	MK28	MC 4	FK28	FK28	FK28	FK28	FK28										
1567	MS	MK28	MK28	MK28	FC 4	FK28	FK28	FC 4	FC 4	FC 4	FC 4	FK28	FK28	FK28	FK28	FK28							
1568	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FC 4	FK28	FK28	FK28											
1569	MK28	MK28	MC 4	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FK28	FC 4										
1570	MK28	MK28	MC 4	MK28	MK28	MC 4	MK28	MC 4	FK28	FK28	FK28	FK28	FK28										
1571	MK28	MK28	MK28	MK28	MK28	FC 4	FC 4	FK28	FK28	FK28	FK28	FC 4	FK28										
1572	MK28	MK28	MK28	MC 4	MC 4	MC 4	MK28	MC 4	MK28	FK28	FK28	FC 4	FK28	FK28	FK28								
1573	MC 4	MK28	MC 4	MK28	MK28	MC 4	MK28	MK28	FK28	FM 1	FK28	FC 4	FK28	FK28	FK28								
1574	MK28	MC 4	MK28	MC 4	MK28	MK28	MK28	FK28	FK28	FK28	FC 4	FK28	FK28										
1575	MC 4	MK28	MK28	MK28	MK28	MK28	MK28	MK28	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 C-CULLED M-MISSING K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX S F1 GENERATION

GASOLINE ETHANOL 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
2551	MK28	MK28	MC 4	MK28	MK28	MK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FK28										
2552	MK28	MC 4	MC 4	MC 4	MK28	MK28	MK28	MC 4	MK28	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28							
2553	MK28	MK28	MK28	MK28	MK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FC 4	FC 4	FK28									
2554	MK28	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FC 4	FC 4	FK28									
2555	MS	MK28	MK28	MK28	MC 4	MC 4	MK28	MK28	FC 4	FC 4	FC 4	FK28	FK28	FK28	FC 4	FK28	FK28						
2556	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28											
2557	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28	FC 4									
2558	MC 4	MK28	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FD 3	FK28	FC 4								
2559	MK28	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FK28	FC 4	FK28	FC 4	FC 4	FK28	FC 4	FC 4	FC 4						
2560	MK28	MK28	MK28	FC 4	FC 4	FK28	FC 4	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FK28	FC 4							
2561	MK28	MC 4	MK28	MD 4	MK28	MC 4	MK28	MC 4	MK28	MK28	FK28	FK28	FK28	FK28									
2562	MC 4	MK28	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FK28	FK28	FK28											
2563	MC 4	MC 4	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	FK28	FK28	FK28	FK28	FK28	FC 4								
2564	MK28	MK28	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FK28												
2565	MC 4	MC 4	MC 4	MK28	MK28	MK28	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28									
2567	MS	MK28	MK28	MK28	MC 4	MC 4	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FK28									
2568	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	MK28	MC 4	FK28	FK28	FK28	FK28										
2569	MK28	FC 4	FC 4	FC 4	FK28	FK28	FK28	FM 1	FK28	FK28	FK28	FK28	FK28	FK28									
2570	MS	MK28	MK28	MK28	MK28	MC 4	MK28	FK28	FK28	FK28	FK28	FK28											
2571	FS	MK28	MK28	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28											
2572	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28															
2573	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FC 4	FK28	FC 4	FK28	FK28	FK28	FK28									
2574	FS	MC 4	MC 4	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FC 4						
2575	FD 0	MK28	MK28	MK28	MK28	MC 4	MC 4	MK28	FK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FC 4							
2576	MK28	MK28	MK28	MK28	MK28	MC 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

Huntingdon Life Sciences 00-4203

APPENDIX S F1 GENERATION

GASOLINE ETHANOL 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
3551	MK28	MK28	MK28	MK28	MK28	MK28	MK28	FK28	FD 3	FK28	FK28												
3553	MK28	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FK28	FC 4	FC 4	FK28									
3554	FS	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FC 4	FK28	FK28	FK28										
3555	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	FK28	FK28	FK28	FK28	FK28											
3556	MK28	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FM 1	FK28										
3557	MK28	MC 4	MC 4	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FK28								
3558	MK28	FK28	MK28	MK28	FC 4	FK28	FC 4	FK28	FK28	FK28	FC 4	FK28	FK28										
3559	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FC 4	FK28	FK28	FC 4	FK28								
3560	MK28	MK28	MK28	MC 4	MC 4	MC 4	MK28	MK28	MC 4	MC 4	FC 4	FK28	FK28	FK28	FK28	FK28							
3561	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FK28	FC 4											
3562	MK28	MK28	MK28	MC 4	MC 4	MC 4	MK28	MC 4	MC 4	MK28	FC 4	FK28	FK28	FK28	FK28	FK28							
3563	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28											
3564	MK28	MC 4	MK28	MK28	MK28	MC 4	MK28	FC 4	FK28	FK28	FK28	FK28	FK28										
3565	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FK28	FK28	FK28												
3566	MK28	MK28	MK28	MK28	MK28	FC 4	FC 4	FK28	FK28	FC 4	FC 4	FK28	FD 4	FK28	FK28								
3567	MK28	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FC 4	FK28											
3568	MC 4	MK28	MK28	MC 4	MC 4	MC 4	MK28	MK28	MK28	FK28	FC 4	FK28	FK28	FK28	FK28								
3569	MK28	FK28	FM 1	FK28	FM 1																		
3570	MK28	MK28	MK28	MK28	MK28	FC 4	FC 4	FC 4	FC 4	FK28	FK28	FK28	FK28	FK28									
3571	MK28	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FC 4								
3572	MC 4	MK28	MC 4	MC 4	MK28	MK28	MC 4	MK28	MK28	FC 4	FK28	FC 4	FK28	FK28	FK28	FK28							
3573	MK28	MK28	MK28	MK28	FK28	FC 4	FK28	FC 4	FC 4	FK28	FC 4	FK28	FK28	FC 4	FK28								
3574	MK28	MK28	MK28	MC 4	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28	FK28										
3575	MK28	MC 4	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FC 4	FC 4	FK28	FK28	FC 4	FK28								
3576	MK28	MC 4	MC 4	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FK28	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-STILLBORN D-DIED C-CULLED M-MISSING K-SCHEDULED SACRIFICE

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APPENDIX S F1 GENERATION

GASOLINE ETHANOL 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
4551	MC 4	MK28	MK28	MK28	MC 4	MK28	MK28	MK28	MC 4	MK28	FK28	FK28	FK28										
4552	MK28	MC 4	MC 4	MC 4	MK28	MK28	MC 4	MC 4	MK28	MC 4	MC 4	MK28	MK28	FK28	FK28	FK28	FK28						
4553	MK28	MK28	MK28	MK28	MC 4	MK28	FK28	FK28	FK28	FK28	FK28												
4554	MK28	MK28	MK28	MK28	MC 4	MK28	FK28	FK28	FK28	FC 4	FK28	FK28											
4555	MK28	MK28	MC 4	MC 4	MK28	MC 4	MK28	MK28	MC 4	FC 4	FC 4	FK28	FK28	FK28	FK28	FK28							
4556	MK28	MK28	MD15	MD 6	FK28	FK28	FK28	FC 4	FK28	FC 4	FK28	FK28	FM 1										
4557	MC 4	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FK28	FK28	FC 4	FM 2									
4558	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	MC 4	FK28	FM 2	FK28	FK28	FK28	FK28	FC 4								
4559	FD 0	MC 4	MK28	MK28	MK28	MK28	MK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FK28	FC 4								
4560	MS	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	MC 4	MK28	FK28	FK28	FK28	FK28									
4561	MK28	MK28	MK28	MK28	FC 4	FK28	FK28	FK28	FK28	FK28	FK28												
4562	MK28	MC 4	MC 4	MC 4	MC 4	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FC 4	FK28	FK28	FK28							
4563	MK28	MK28	MK28	MK28	FK28	FK28	FC 4	FK28	FK28	FK28	FC 4	FK28											
4564	MK28	MK28	MK28	MK28	MK28	MC 4	MK28	MC 4	MC 4	MK28	MC 4	FK28	FK28	FK28									
4566	MK28	MK28	MK28	MK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FK28	FC 4	FC 4	FC 4	FK28	FC 4							
4567	MK28	MK28	MK28	MC 4	MK28	MK28	MD 3	FC 4	FK28	FK28	FK28	FK28	FK28	FC 4	FM 2								
4568	MK28	MK28	MK28	MK28	MK28	FK28	FK28	FK28	FC 4	FK28	FK28												
4569	MK28	MK28	MC 4	MC 4	MK28	MK28	MK28	FC 4	FC 4	FC 4	FC 4	FC 4	FK28	FK28	FK28	FK28	FK28						
4570	MK28	MK28	MK28	FK28	FK28	FK28	FC 4	FK28	FC 4	FC 4	FK28	FK28	FK28	FC 4									
4571	FS	MK28	MK28	MK28	MC 4	MK28	MK28	MK28	MC 4	MC 4	FK28	FK28	FK28	FK28									
4572	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	FK28	FK28	FK28	FK28	FK28	MS										
4573	MC 4	MK28	MK28	MK28	MK28	MK28	MC 4	FC 4	FC 4	FK28	FK28	FK28	FK28	FK28	FC 4								
4574	MK28	MK28	MK28	MC 4	MK28	MK28	FK28	FK28	FK28	FC 4	FC 4	FC 4	FK28	FC 4	FK28								
4575	MK28	MK28	MK28	MC 4	MC 4	MK28	MK28	FK28	FC 4	FC 4	FK28	FK28	FK28	FK28	FC 4								
4576	MC 4	MK28	MK28	MK28	MK28	MC 4	MC 4	MC 4	MK28	FK28	FK28	FK28	FC 4	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

	Individual Pup Clinical Observations During Lactation Preface	Appendix T

Note:

Stillborn pups and those found dead on PND 0 are not presented in this appendix.

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APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1551 PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
1552 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P
1553 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1553 PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
1554 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
1555 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			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								P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1555 PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
1556 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P																												
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P																								
1557 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1558 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
1559 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
1560 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1560 PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
1561 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							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			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
1562 PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1562	PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 9	WITHIN NORMAL LIMITS					P			P							P							P							P
	PUP# 12	WITHIN NORMAL LIMITS					P			P							P							P							
	PUP# 14	WITHIN NORMAL LIMITS					P			P							P							P							
	PUP# 3	LACERATION CERVICAL	P																												
	PUP# 9	LACERATION LEFT LATERAL	P																												
	PUP# 14	LACERATION DORSAL SURFACE	P																												
	PUP# 14	LACERATION LEFT HIND PAW	P																												
	PUP# 12	TIP OF TAIL MISSING	P																												P
	PUP# 14	LEFT HIND PAW MISSING																													P
1563	PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 6	WITHIN NORMAL LIMITS	P				P																								
	PUP# 7	WITHIN NORMAL LIMITS	P				P																								
	PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 11	WITHIN NORMAL LIMITS	P				P																								
	PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
1564	PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1565 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P																								
PUP# 14	WITHIN NORMAL LIMITS	P				P																								
PUP# 15	WITHIN NORMAL LIMITS	P				P																								
1566 PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
1567 PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1567 PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								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			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P								P						P
1568 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
1569 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1569 PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P																								
1570 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
1571 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1572 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							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			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P
1573 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P																												
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1574 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
1575 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2551 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P										P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P							P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P							P							P														P
PUP# 11	SWOLLEN PAW(S)								P																					
PUP# 12	SCABS					P																								
PUP# 13	SCABS					P																	P							
2552 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P																								
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2553 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			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							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P																								
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
2554 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2555 PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P																								
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 17	WITHIN NORMAL LIMITS	P				P			P							P							P							P
2556 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2557 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			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								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P																								
2558 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P																												
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2559 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P																								
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P																								
PUP# 16	WITHIN NORMAL LIMITS	P				P																								
PUP# 17	WITHIN NORMAL LIMITS	P				P																								
2560 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P																								
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2560 PUP# 16	WITHIN NORMAL LIMITS	P				P																								
2561 PUP# 1	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 4	WITHIN NORMAL LIMITS	P																												
PUP# 5	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P								P							P						P
2562 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P								P							P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2563 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P																								
2564 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
2565 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			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2565 PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
2567 PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
2568 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2568 PUP# 10	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P								P							P						P
2569 PUP# 1	WITHIN NORMAL LIMITS	P				P			P								P							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			P								P							P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 8	WITHIN NORMAL LIMITS	P																												
PUP# 9	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P								P							P						P
2570 PUP# 2	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P																						P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 7	SCABS					P			P								P													

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2571 PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
2572 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
2573 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2573 PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
2574 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			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 16	WITHIN NORMAL LIMITS	P				P																								
PUP# 17	WITHIN NORMAL LIMITS	P				P																								
2575 PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
2575	PUP# 15	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 16	WITHIN NORMAL LIMITS		P				P																								
2576	PUP# 1	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 2	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 5	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 6	WITHIN NORMAL LIMITS		P				P																								
	PUP# 7	WITHIN NORMAL LIMITS		P				P																								
	PUP# 8	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 9	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 10	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 11	WITHIN NORMAL LIMITS		P				P			P							P							P							P
	PUP# 12	WITHIN NORMAL LIMITS		P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3551 PUP# 1	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 9	WITHIN NORMAL LIMITS	P																												
PUP# 10	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P								P							P						P
3553 PUP# 1	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P																								
PUP# 14	WITHIN NORMAL LIMITS	P				P			P								P							P						P
3554 PUP# 2	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P								P							P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P								P							P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3554 PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
3555 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
3556 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P																												
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3557 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								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			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
3558 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3559 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			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								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P																								
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
3560 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							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			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								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			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P								P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3561 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
3562 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P							P							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			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	LACERATION ON SNOUT					P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3563 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
3564 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
3565 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3565 PUP# 7	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P								P										P			P
3566 PUP# 1	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 13	WITHIN NORMAL LIMITS	P																												
PUP# 14	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P								P										P			P
3567 PUP# 1	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P								P										P			P
PUP# 11	WITHIN NORMAL LIMITS	P				P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3567 PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
3568 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							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			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
3569 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P																												
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P																												
3570 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								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																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3570 PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
3571 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P																								
PUP# 15	WITHIN NORMAL LIMITS	P				P																								
3572 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3572 PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	ALOPECIA - EXTREMITIES/SNOUT																													2
PUP# 9	ALOPECIA - EXTREMITIES/SNOUT																													2
PUP# 11	ALOPECIA - EXTREMITIES/SNOUT																													2
3573 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P																								
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
3574 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3574 PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
3575 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P																								
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
3576 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
3576	PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
	PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
	PUP# 14	WITHIN NORMAL LIMITS	P				P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4551 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
4552 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			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							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 17	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4553 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
4554 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
4555 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P																								
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P																								
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4555 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			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P								P						P
4556 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P														
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P																								
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P																												
PUP# 2	BODY LEANS TO LEFT																													P
4557 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4557 PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P																								
PUP# 14	WITHIN NORMAL LIMITS	P																												
4558 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			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							P							P
PUP# 10	WITHIN NORMAL LIMITS	P																												
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P																								
4559 PUP# 2	WITHIN NORMAL LIMITS	P				P																								
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4559	PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 15	WITHIN NORMAL LIMITS	P				P																								
4560	PUP# 2	WITHIN NORMAL LIMITS	P				P																								
	PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 8	WITHIN NORMAL LIMITS	P				P																								
	PUP# 9	WITHIN NORMAL LIMITS	P				P																								
	PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
4561	PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 5	WITHIN NORMAL LIMITS	P				P																								
	PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4562 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P																								
PUP# 13	WITHIN NORMAL LIMITS	P				P																								
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P							P							P
4563 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 11	WITHIN NORMAL LIMITS	P				P																								
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4564	PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 6	WITHIN NORMAL LIMITS	P				P																								
	PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 8	WITHIN NORMAL LIMITS	P				P																								
	PUP# 9	WITHIN NORMAL LIMITS	P				P																								
	PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 11	WITHIN NORMAL LIMITS	P				P																								
	PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
4566	PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 6	WITHIN NORMAL LIMITS	P				P																								
	PUP# 7	WITHIN NORMAL LIMITS	P				P																								
	PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 11	WITHIN NORMAL LIMITS	P				P			P							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			P							P							P							P
	PUP# 16	WITHIN NORMAL LIMITS	P				P																								

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4567	PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS	P				P																								
	PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 7	WITHIN NORMAL LIMITS	P																												
	PUP# 8	WITHIN NORMAL LIMITS	P				P																								
	PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 14	WITHIN NORMAL LIMITS	P				P																								
	PUP# 15	WITHIN NORMAL LIMITS	P																												
4568	PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 9	WITHIN NORMAL LIMITS	P				P																								
	PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
4569	PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS	P				P																								
	PUP# 4	WITHIN NORMAL LIMITS	P				P																								
	PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4569 PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 16	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 17	WITHIN NORMAL LIMITS	P				P			P							P							P							P
4570 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P																								
4571 PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4571 PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P								P						P
4572 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 7	WITHIN NORMAL LIMITS	P				P																								
PUP# 8	WITHIN NORMAL LIMITS	P							P							P								P						P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 8	SWOLLEN PAW(S)					P																								
4573 PUP# 1	WITHIN NORMAL LIMITS	P				P																								
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P								P						P
PUP# 6	WITHIN NORMAL LIMITS	P				P			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																								
PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P								P						P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4573 PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 15	WITHIN NORMAL LIMITS	P				P																								
4574 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P
PUP# 14	WITHIN NORMAL LIMITS	P				P																								
PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P
4575 PUP# 1	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 4	WITHIN NORMAL LIMITS	P				P																								
PUP# 5	WITHIN NORMAL LIMITS	P				P																								
PUP# 6	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 7	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 8	WITHIN NORMAL LIMITS	P				P			P							P							P							P
PUP# 9	WITHIN NORMAL LIMITS	P				P																								
PUP# 10	WITHIN NORMAL LIMITS	P				P																								
PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX T F1 GENERATION

GASOLINE ETHANOL 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
4575	PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 13	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 15	WITHIN NORMAL LIMITS	P				P																								
4576	PUP# 1	WITHIN NORMAL LIMITS	P				P																								
	PUP# 2	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 3	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 4	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 5	WITHIN NORMAL LIMITS	P				P			P							P							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			P							P							P							P
	PUP# 10	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 11	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 12	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 13	WITHIN NORMAL LIMITS	P				P																								
	PUP# 14	WITHIN NORMAL LIMITS	P				P			P							P							P							P
	PUP# 15	WITHIN NORMAL LIMITS	P				P			P							P							P							P

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

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP I 0 MG/M3 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
1551	8.3	S	8.6	8.5	8.4	8.4	8.7	8.3	7.7	8.2	7.6	8.3								
1552	6.6	7.2	6.7	7.5	7.1	6.9	7.0	6.1	6.3	6.5	5.9	6.7	6.7	6.2	6.1	6.1	7.1			
1553	7.0	7.1	7.8	7.7	6.8	7.5	6.7	6.7	7.7	7.4	5.8	6.4	6.9	7.2	6.9					
1554	7.1	8.1	6.7	7.3	7.0	7.6	6.9	7.4	7.5	5.9	7.2	6.9	7.0	6.9						
1555	7.3	7.2	7.9	8.1	8.0	6.8	7.6	7.5	6.6	7.0	7.0	6.6	7.2	7.0						
1556	7.3	7.5	7.7	7.7	7.7	8.3	5.2	7.8	7.1	7.1	7.3	7.0	7.2	7.8						
1557	6.6	6.9	6.6	6.7	6.7	6.6	6.9	6.4	6.0	7.0	6.2	6.5	6.4							
1558	7.5	7.8	8.5	7.0	7.5	8.0	7.6	7.6	7.5	7.7	7.4	7.0	7.0							
1559	7.0	7.2	7.1	7.3	7.2	7.4	7.2	7.3	6.6	7.2	6.6	6.8	6.7	7.3	6.8	6.9				
1560	7.1	7.3	7.3	7.2	7.6	6.8	7.3	6.7	6.3	7.2	7.0	7.3								
1561	6.7	6.6	7.6	6.8	6.5	7.0	6.4	7.1	7.2	7.3	6.4	6.5	6.3	6.3	5.9	6.9				
1562	7.3	S	8.3	M	7.5	7.9	7.2	7.8	7.3	7.0	7.6	6.7	6.9	6.9	5.8	7.4				
1563	6.9	7.4	7.4	7.2	6.4	7.5	6.7	6.4	6.9	6.5	6.7	6.5	7.0	6.6						
1564	8.2	S	8.4	8.6	9.0	7.9	7.7	8.2	7.7											
1565	7.2	7.6	7.0	7.8	7.6	7.1	7.2	7.5	7.4	7.2	6.9	7.1	5.9	7.3	7.0	7.1				
1566	7.6	S	8.0	8.0	6.9	7.9	7.0	7.7	8.1	7.9	6.8	7.9	7.4	7.2						
1567	7.1	S	7.8	8.0	7.4	7.1	7.2	7.2	6.8	7.3	6.9	6.8	7.2	7.1	6.8	6.4	7.2			
1568	7.3	7.9	7.7	7.7	7.3	7.0	7.0	6.9	6.9	7.4	7.1	7.2	7.1							
1569	7.3	7.8	7.2	6.9	7.7	7.6	7.3	7.5	7.4	6.7	7.3	7.3	7.3	7.4						
1570	7.5	7.6	7.4	8.0	8.1	7.7	8.0	7.7	8.2	6.6	6.8	7.1	7.4	7.4						
1571	7.8	8.8	8.3	8.0	8.1	7.9	7.6	7.5	7.3	7.9	7.0	7.4	7.5	8.3						
1572	8.3	8.7	9.1	8.4	8.6	8.9	8.1	8.8	8.4	8.3	7.6	7.7	8.1	8.0	7.6	7.6				
1573	6.9	7.2	6.9	7.1	7.4	6.8	7.3	7.2	6.9	6.3	M	6.5	7.0	6.5	6.8	6.8				
1574	7.7	8.1	7.9	8.3	8.3	8.3	7.5	7.6	6.8	7.6	7.5	7.5	6.9	7.8						
1575	7.9	7.3	8.1	7.5	8.4	8.8	7.4	8.3	8.3	7.5	7.9	7.9								
1576	NOT PREGNANT																			

MEAN	7.3
S.D.	0.48
N	25

PUP STATUS CODES: S-STILLBORN M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP II 2000 MG/M3 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
2551	7.5	7.9	7.6	7.9	8.3	8.1	7.0	7.7	7.5	7.6	7.0	7.5	7.5	6.0						
2552	7.0	7.5	7.1	7.4	7.1	7.4	6.8	7.0	7.0	7.3	7.3	6.7	6.9	6.4	6.7	6.6	7.0			
2553	6.2	6.4	6.6	6.8	6.2	6.5	6.0	4.8	6.4	5.8	5.7	6.2	6.7	5.9	6.4					
2554	7.2	7.7	7.6	7.5	7.2	7.4	7.6	7.1	7.1	6.6	7.3	6.7	7.2	6.7	7.7					
2555	7.0	S	7.7	7.0	7.0	7.2	7.0	7.2	7.2	6.8	7.1	6.7	7.0	7.0	6.9	6.6	6.5	7.4		
2556	7.4	7.4	6.5	8.1	7.5	7.5	7.4	7.3	7.5	7.3	7.1	7.8	7.3							
2557	7.3	7.4	7.9	7.7	7.3	7.7	6.8	7.1	7.5	7.3	7.4	7.4	6.6	7.2	7.0					
2558	6.3	6.4	6.5	6.6	6.5	7.0	6.5	5.7	6.3	6.4	6.4	6.3	5.5	5.9	6.0	5.9				
2559	6.7	7.2	7.2	7.1	6.3	6.9	6.5	6.9	6.5	6.3	6.9	7.1	6.4	5.9	6.7	6.3	7.1	6.4		
2560	6.8	6.8	8.0	7.4	6.6	6.7	6.7	7.2	6.6	7.0	6.9	6.8	7.1	6.6	6.2	6.3	6.5			
2561	7.5	7.2	7.8	6.3	7.5	7.6	7.7	7.1	6.8	6.6	7.6	7.5	7.1	11.0	6.8					
2562	6.9	7.3	7.2	6.9	7.3	7.1	5.6	7.1	7.0	6.5	7.1	7.0	6.8							
2563	6.9	7.2	7.0	7.0	6.9	6.9	7.3	6.8	7.3	7.1	6.7	6.9	6.3	6.8	6.9	6.8				
2564	7.9	8.0	7.6	8.0	8.2	8.5	7.8	7.5	8.1	7.3	7.5	8.0								
2565	8.5	7.8	9.5	8.5	8.8	8.3	8.8	8.8	8.2	8.7	9.2	8.3	8.0	8.3	8.4					
2566	NOT PREGNANT																			
2567	8.1	S	8.1	8.2	8.2	7.6	8.3	8.8	8.0	7.9	8.0	7.8	7.8	8.0	8.0					
2568	7.3	7.6	8.1	7.2	6.7	7.6	7.0	7.4	7.5	7.7	7.2	7.3	7.2	6.4						
2569	7.0	7.3	6.9	7.0	7.1	6.6	7.6	7.0	M	7.2	6.7	7.3	6.5	6.9	6.9					
2570	8.3	S	8.5	8.7	8.5	8.3	8.5	8.3	8.4	8.2	7.8	8.0	7.6							
2571	8.1	S	8.6	8.6	8.3	8.2	8.2	8.5	8.3	7.6	8.0	6.5	8.2							
2572	8.5	8.8	8.8	8.9	8.7	7.8	8.9	8.1	7.9											
2573	7.0	6.5	8.0	7.3	6.6	7.2	6.6	7.1	7.1	6.6	6.8	7.4	7.0	7.4	6.5					
2574	6.0	S	5.9	6.6	6.2	5.9	6.2	6.4	6.5	6.4	5.8	6.1	6.4	6.0	4.8	5.4	5.0	5.7		
2575	7.7	D	7.9	7.8	8.4	7.6	7.6	8.3	7.7	6.9	7.8	7.4	8.0	7.8	8.4	7.0	6.7			
2576	7.3	8.2	7.2	7.3	8.0	7.4	7.5	7.3	6.9	6.4	8.0	6.8	6.9							

MEAN 7.3
S.D. 0.68
N 25

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

GASOLINE ETHANOL 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 1

FEMALE#	MEAN	PUP# 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
3551	7.4	7.7	7.0	7.4	7.3	7.6	8.1	7.4	6.8	7.6	7.5	6.9								
3552	NOT PREGNANT																			
3553	7.4	8.3	7.7	7.9	6.8	7.3	7.5	7.2	7.7	7.5	7.3	7.5	6.5	7.0	6.9					
3554	5.8	S	5.8	5.3	6.5	5.8	6.0	5.8	5.5	6.0	5.7	5.7	5.6	5.5						
3555	8.8	8.6	9.1	8.9	8.4	10.8	8.8	8.3	8.3	8.4	9.3	8.3	8.2							
3556	7.2	7.5	7.9	6.8	6.4	7.6	7.3	6.6	7.8	7.3	7.0	7.1	M	7.1						
3557	7.0	7.1	7.1	7.5	7.5	7.3	7.6	7.2	6.6	7.4	6.1	6.1	7.0	6.9	6.9	7.1				
3558	6.8	7.7	7.1	6.4	7.6	4.9	6.8	6.9	7.1	7.1	6.8	6.8	6.8	6.3						
3559	7.1	6.8	7.1	7.1	7.1	7.3	7.3	7.3	6.9	7.3	7.0	7.0	7.0	7.3	6.7	6.6				
3560	6.5	7.0	7.2	7.1	7.0	6.9	7.0	6.1	7.0	6.8	4.5	6.5	5.5	7.1	5.9	6.0	6.2			
3561	8.1	8.5	8.0	8.4	7.9	8.9	8.4	7.7	8.0	8.3	8.2	8.2	6.7							
3562	7.2	7.4	7.5	7.5	7.9	7.4	7.6	7.1	7.0	7.9	7.6	6.3	6.1	7.0	6.1	7.2	8.1			
3563	7.2	7.3	7.4	7.7	7.4	7.7	7.6	6.5	7.2	6.6	7.3	6.8	6.9							
3564	7.1	7.4	7.1	7.2	7.9	7.0	6.9	7.0	7.3	6.9	6.6	6.7	6.9	7.2						
3565	7.6	7.5	8.5	8.2	7.2	7.1	7.4	7.6	7.7	7.6	7.5	7.3								
3566	6.6	6.5	7.0	6.7	7.1	6.6	6.4	6.8	6.5	6.4	6.2	6.8	7.0	5.8	6.6	6.8				
3567	7.6	7.7	8.0	8.2	7.7	7.8	7.4	7.5	7.7	7.3	7.9	7.2	7.1							
3568	7.0	7.6	7.2	6.2	6.8	6.8	6.8	7.1	7.3	7.4	6.8	7.0	7.0	6.9	7.3	6.6				
3569	8.6	8.3	8.4	M	9.1	M														
3570	7.0	7.4	7.0	7.3	7.4	7.5	6.3	7.4	7.0	7.1	6.8	6.8	6.8	6.7	6.9					
3571	6.6	6.6	6.9	7.2	6.6	6.9	7.2	6.2	6.0	6.6	6.5	6.7	6.5	6.3	6.3	6.6				
3572	7.0	7.6	6.9	7.5	7.5	7.3	7.8	6.6	7.9	6.8	7.1	6.9	6.5	6.0	6.3	7.1	6.7			
3573	7.2	8.0	7.5	7.3	7.3	7.1	7.1	7.1	6.8	6.9	7.7	7.3	7.0	7.1	7.2	6.7				
3574	7.3	7.4	7.1	6.7	7.7	7.8	7.7	7.7	7.5	6.8	7.1	7.2	7.2	7.0						
3575	6.2	6.4	6.1	6.0	5.9	6.7	6.5	6.1	6.5	6.3	5.9	6.3	5.6	6.0	6.4	6.6				
3576	7.3	7.5	7.0	7.8	8.0	7.1	8.2	7.0	6.9	6.8	6.9	7.1	7.4	7.6	7.5					

MEAN	7.2
S.D.	0.65
N	25

PUP STATUS CODES: S-STILLBORN M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP IV 20000 MG/M3 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
4551	7.4	7.8	7.7	7.9	7.2	7.5	7.2	7.3	7.0	7.9	7.8	7.3	6.9	6.8						
4552	6.9	6.9	7.3	7.4	6.9	7.1	6.6	7.3	7.9	7.5	7.1	6.6	6.9	6.8	6.8	6.6	6.0	6.4		
4553	7.4	7.2	7.5	7.4	8.2	7.1	7.7	7.8	7.0	7.4	6.9	7.0								
4554	7.7	7.6	7.7	7.5	7.6	8.4	7.9	7.9	7.4	7.9	8.1	7.3	7.2							
4555	6.4	6.8	6.7	6.7	6.5	6.8	6.1	6.7	6.8	6.6	6.3	6.0	6.2	6.9	5.7	6.3	6.0			
4556	6.9	7.9	5.4	4.9	5.0	8.0	7.2	7.0	7.5	7.1	8.2	7.6	7.3	M						
4557	7.3	7.6	8.8	7.1	7.9	7.5	7.0	7.8	7.4	6.8	7.0	6.7	6.8	6.8	7.0					
4558	6.0	6.3	4.5	6.3	6.6	5.7	5.8	6.5	6.0	5.6	6.2	5.9	6.4	6.5	5.7	6.2				
4559	7.2	D	7.3	7.7	7.6	7.5	7.5	7.2	6.9	6.7	6.7	7.3	6.9	7.1	7.3	6.6				
4560	7.4	S	7.6	7.0	7.6	7.4	7.7	7.1	7.7	7.5	7.3	7.4	6.8	7.5	7.0					
4561	7.3	7.8	7.0	7.4	7.6	7.5	7.1	6.8	7.1	7.9	7.1	7.2								
4562	6.4	7.1	6.6	6.6	6.8	6.4	6.3	6.5	6.0	6.4	6.3	6.0	6.1	5.2	6.9	6.4	6.3			
4563	7.3	7.5	8.0	7.7	8.0	7.4	6.4	7.2	7.1	6.9	7.0	6.9	7.2							
4564	7.6	8.0	7.4	8.5	7.7	7.7	7.2	7.5	8.1	8.2	7.3	7.4	7.2	7.1	7.3					
4565	NOT PREGNANT																			
4566	6.9	7.4	7.5	7.1	5.8	6.5	6.6	6.8	6.8	6.7	7.0	7.2	6.8	7.1	7.0	6.7	7.9			
4567	6.3	6.2	6.5	6.1	6.2	6.6	6.6	6.4	6.2	5.9	6.1	6.4	6.3	6.2	5.8	6.5				
4568	6.8	7.2	7.2	6.7	7.3	7.0	7.3	6.5	6.2	6.4	6.3	6.8								
4569	6.8	6.7	7.4	7.5	7.0	7.0	6.5	7.0	6.8	6.8	7.1	6.1	6.8	6.9	6.7	6.3	6.3	7.0		
4570	6.6	6.6	6.9	6.9	6.9	6.7	6.7	6.4	6.0	6.4	6.4	7.2	7.0	6.4	6.5					
4571	7.3	S	7.2	7.5	6.9	7.6	7.4	7.6	7.2	7.3	7.6	7.4	7.1	6.5	7.1					
4572	7.2	7.7	7.1	7.4	7.4	7.1	7.4	7.4	7.5	6.8	6.4	7.1	7.1	S						
4573	7.5	8.2	8.0	7.8	7.9	7.2	6.9	7.3	7.7	7.5	6.8	7.4	7.5	6.9	7.7	7.1				
4574	6.5	6.9	6.5	6.8	6.6	6.4	7.0	6.6	7.0	6.3	6.4	6.3	6.1	6.3	6.1	6.3				
4575	7.0	7.7	7.1	6.9	7.4	7.8	7.3	6.9	6.5	6.1	6.8	7.3	6.6	7.0	6.5	7.1				
4576	6.8	6.8	6.8	7.3	6.8	6.4	7.4	7.1	7.0	6.6	6.9	6.7	6.5	6.7	6.2	7.0				

MEAN 7.0
S.D. 0.44
N 25

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP I 0 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
1551	11.9	S	12.8	11.5	12.0	12.4	12.2	11.9	11.2	11.9	10.7	12.0								
1552	8.9	9.9	8.7	9.7	9.3	8.7	9.6	8.1	8.9	8.9	8.2	9.0	9.1	8.1	8.3	8.3	9.0			
1553	9.8	10.1	10.6	10.4	9.6	10.5	9.3	9.6	10.3	10.3	8.2	9.0	9.2	10.5	9.3					
1554	10.7	11.7	10.2	11.1	10.9	11.6	9.9	11.5	11.7	9.4	10.3	10.4	10.8	10.1						
1555	10.7	10.9	11.3	11.7	11.9	10.0	11.5	11.0	9.6	10.5	10.2	9.9	10.2	10.9						
1556	10.1	10.6	10.7	9.8	10.7	10.5	M	10.0	9.1	9.8	9.9	9.7	9.8	10.0						
1557	10.0	10.3	9.2	10.3	10.0	10.6	10.6	10.3	9.0	11.0	9.3	9.9	9.6							
1558	10.5	10.6	11.6	9.4	10.6	10.9	11.0	10.4	10.4	10.5	10.6	9.9	9.6							
1559	9.8	10.2	9.9	10.4	9.6	10.8	10.4	10.5	10.1	10.4	8.7	9.0	9.7	9.5	9.1	9.1				
1560	11.6	11.8	11.8	11.7	12.1	11.5	11.6	11.2	11.0	11.3	11.6	11.9								
1561	10.4	10.3	11.7	10.5	10.4	10.8	9.9	10.7	11.0	11.2	10.5	10.9	9.6	9.8	9.4	9.6				
1562	11.0	S	11.8	M	11.3	11.7	10.9	11.5	10.8	11.0	11.7	10.1	10.7	11.1	8.6	11.5				
1563	8.9	10.0	8.7	8.5	8.2	10.7	9.0	8.0	8.3	8.7	8.2	9.0	9.4	9.5						
1564	13.3	S	14.3	13.7	14.2	12.7	12.8	13.6	12.1											
1565	9.9	9.0	10.1	11.3	9.9	10.5	9.0	9.7	10.7	9.3	9.5	9.4	10.8	10.0	9.4	9.5				
1566	11.4	S	11.9	12.4	10.9	11.6	10.7	11.5	11.8	11.8	11.2	11.1	11.3	10.8						
1567	10.6	S	10.6	11.2	11.1	9.7	10.5	11.1	10.8	10.6	10.6	10.7	10.7	10.5	10.1	10.1	10.8			
1568	9.9	10.4	10.3	10.5	9.9	9.9	8.9	9.6	9.5	10.3	9.8	9.6	9.7							
1569	9.8	10.0	9.7	8.7	10.4	10.1	10.4	10.0	10.6	9.5	10.1	8.5	9.0	10.8						
1570	10.7	11.2	10.5	11.2	11.2	10.3	10.9	11.3	10.6	10.5	10.0	10.2	10.6	10.1						
1571	10.3	11.0	10.2	11.0	10.4	10.4	9.8	10.7	10.2	10.1	10.2	9.8	9.8	10.6						
1572	11.5	12.1	12.7	11.4	11.6	12.5	11.5	12.4	10.7	11.6	10.7	10.9	11.5	11.3	10.9	11.2				
1573	10.1	10.5	10.2	10.6	11.3	9.4	10.8	10.6	10.7	9.0	M	9.2	9.2	9.8	10.0	9.9				
1574	11.5	11.6	12.4	12.6	12.3	12.0	11.5	11.3	10.4	11.1	11.5	11.1	10.6	11.3						
1575	11.3	9.7	11.8	10.5	11.9	12.5	10.2	11.8	12.5	11.5	11.5	10.7								
1576	NOT PREGNANT																			

MEAN	10.6
S.D.	0.98
N	25

PUP STATUS CODES: S-STILLBORN M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP II 2000 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
2551	10.6	11.4	11.5	11.4	11.5	11.2	9.9	11.0	10.7	11.1	10.0	9.9	10.2	8.0						
2552	9.6	10.3	10.1	9.5	9.6	9.9	9.8	9.4	10.5	9.6	9.9	9.6	9.5	9.1	8.9	8.6	9.7			
2553	9.6	10.3	10.2	10.6	9.3	9.8	9.4	7.7	10.0	9.1	9.4	9.7	10.6	9.3	9.5					
2554	11.0	11.7	11.6	11.7	11.3	11.1	11.5	11.3	10.9	10.4	10.6	10.3	10.3	9.7	11.4					
2555	10.1	S	11.2	9.6	9.3	11.4	9.8	10.9	10.9	10.0	9.9	9.1	10.4	9.6	10.3	9.6	9.6	10.4		
2556	9.5	9.7	9.3	10.5	9.2	8.9	9.9	9.1	9.4	9.8	9.4	9.9	8.8							
2557	9.3	9.5	8.9	10.2	9.3	9.9	8.1	8.9	9.0	9.2	9.3	9.2	9.3	9.5	9.2					
2558	9.4	9.4	9.7	9.3	10.0	10.5	9.6	8.9	9.2	10.0	10.5	9.0	8.1	D	8.1	8.9				
2559	9.2	10.5	10.0	9.4	8.7	9.1	9.3	9.4	8.6	8.6	9.3	9.3	9.4	8.6	9.1	8.5	8.8	9.9		
2560	9.9	10.0	11.1	11.1	9.7	9.8	9.8	10.5	9.7	10.3	8.8	10.3	10.5	10.1	9.4	8.8	8.9			
2561	10.9	11.1	12.0	9.6	D	11.5	11.5	10.8	11.0	10.1	11.2	11.1	11.1	10.3	10.6					
2562	10.0	10.8	10.5	10.1	10.3	10.4	8.1	10.0	10.7	8.8	10.6	10.2	10.0							
2563	9.3	9.5	9.3	10.3	9.2	9.6	10.4	9.3	9.8	8.3	8.6	9.2	9.1	9.0	8.7	8.9				
2564	11.0	10.8	10.9	10.5	11.3	11.9	11.5	11.1	11.1	10.1	10.8	11.4								
2565	10.2	9.4	11.1	10.6	10.8	10.2	10.2	10.7	10.1	9.4	10.4	10.3	9.8	10.1	9.8					
2566	NOT PREGNANT																			
2567	11.9	S	11.9	12.1	12.2	11.5	12.3	12.6	12.5	11.1	12.5	11.6	11.5	11.5	11.7					
2568	11.0	11.3	12.1	11.3	10.4	11.2	10.4	10.6	10.8	11.7	11.1	11.4	10.8	10.2						
2569	10.8	11.7	10.6	10.8	10.8	10.8	11.7	10.2	M	10.8	10.3	11.0	10.3	11.0	10.8					
2570	11.0	S	11.3	12.3	11.4	11.7	11.0	10.0	11.0	10.6	10.9	11.1	9.6							
2571	12.2	S	13.0	13.0	12.8	12.2	12.4	12.4	12.2	11.6	12.4	10.3	12.2							
2572	12.9	13.2	13.7	13.5	13.7	12.1	13.4	11.2	12.2											
2573	10.5	9.3	12.0	10.9	8.5	10.8	10.4	11.6	10.7	10.4	10.6	10.9	9.9	10.4	10.0					
2574	8.2	S	8.4	9.3	8.0	7.7	8.1	8.8	8.9	8.5	8.3	8.0	8.1	7.8	6.6	7.7	7.9	8.5		
2575	10.4	D	10.8	10.1	11.0	10.5	10.4	11.1	11.0	9.3	10.3	9.5	10.5	10.0	11.7	9.7	9.9			
2576	10.3	11.2	10.3	10.6	10.7	10.5	10.3	10.2	9.9	9.0	11.5	9.6	10.3							

MEAN	10.4
S.D.	1.05
N	25

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

GASOLINE ETHANOL 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
3551	11.0	11.3	10.9	11.5	11.0	10.8	11.9	10.9	10.4	D	11.5	10.1								
3552	NOT PREGNANT																			
3553	10.7	11.2	11.1	12.3	9.6	10.1	10.9	10.9	12.0	10.3	10.7	10.6	9.5	10.5	10.4					
3554	8.4	S	8.4	7.0	9.4	8.6	8.7	9.2	7.3	8.9	8.5	8.2	8.1	8.0						
3555	12.2	11.6	12.6	12.2	11.7	11.6	12.7	11.8	12.2	12.3	12.3	12.4	12.6							
3556	10.5	11.3	10.7	10.3	9.4	11.2	10.6	9.8	11.1	10.2	10.2	10.6	M	10.1						
3557	9.9	10.3	9.2	10.6	10.2	10.6	10.1	9.8	10.2	10.4	8.4	9.2	10.4	10.2	9.5	9.5				
3558	9.7	11.0	9.5	9.4	10.6	7.8	9.2	10.4	10.2	10.1	10.1	9.0	9.6	8.6						
3559	9.9	9.6	10.3	9.1	9.5	10.0	10.3	10.4	10.1	10.9	10.5	9.8	10.1	10.1	9.1	9.2				
3560	9.5	10.2	9.6	9.3	11.0	10.4	9.9	8.7	10.0	10.0	6.0	9.9	8.8	10.4	8.8	9.4	9.0			
3561	11.7	12.3	11.8	12.8	12.0	13.0	11.8	11.0	10.7	12.0	11.8	11.9	9.7							
3562	9.6	9.0	10.0	10.1	10.1	9.5	10.8	8.8	8.5	10.6	9.9	8.4	8.7	9.2	9.1	10.1	10.5			
3563	11.1	11.3	11.5	11.7	11.7	12.2	10.7	9.9	11.0	10.4	10.9	10.0	11.3							
3564	9.9	10.5	9.8	9.2	10.7	9.8	9.7	10.1	9.9	10.4	9.3	9.8	9.6	9.9						
3565	10.6	10.3	11.1	11.2	10.5	10.5	10.8	10.6	10.4	10.2	10.5	10.3								
3566	8.7	9.4	9.2	9.1	8.8	8.7	8.2	8.7	8.6	8.5	8.4	8.8	8.4	D	8.6	8.5				
3567	10.8	11.3	11.2	11.7	10.3	10.9	10.5	10.3	11.1	9.9	11.3	10.3	10.6							
3568	9.2	9.9	9.2	8.6	9.8	8.7	9.8	8.7	9.7	9.4	8.6	9.2	8.7	8.5	10.2	9.1				
3569	14.2	14.0	14.0	M	14.7	M														
3570	10.2	10.7	10.8	10.7	10.7	10.6	9.5	10.1	10.1	10.3	9.8	9.8	9.7	9.6	10.1					
3571	9.8	9.4	9.8	10.3	10.7	10.3	10.4	9.3	9.0	10.0	9.7	9.4	10.0	9.6	9.4	9.6				
3572	9.4	10.3	8.7	10.1	9.7	9.7	10.7	8.9	9.4	9.7	9.5	9.8	9.6	8.0	7.6	9.2	9.6			
3573	11.3	12.5	11.9	11.8	11.4	11.5	10.8	11.8	9.9	10.6	11.5	12.0	11.3	11.0	10.8	10.1				
3574	10.2	10.5	10.0	9.3	10.9	10.4	10.6	10.7	10.6	9.5	9.8	9.6	9.7	10.4						
3575	8.7	8.8	10.0	8.3	8.3	9.5	8.9	8.8	8.5	9.1	8.3	8.9	7.6	8.6	8.1	9.3				
3576	9.9	10.0	10.0	10.8	11.1	9.4	10.4	9.2	9.6	8.9	9.0	10.1	10.2	9.8	9.7					

MEAN	10.3
S.D.	1.24
N	25

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP IV 20000 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
4551	10.1	10.9	10.8	11.1	10.3	11.0	9.8	10.0	9.5	10.9	10.2	9.0	8.5	9.6						
4552	9.9	10.3	10.5	9.8	9.1	9.8	9.0	10.9	11.1	10.8	10.5	9.0	10.9	9.2	9.7	10.5	9.0	9.0		
4553	10.4	10.2	10.8	10.2	10.6	10.4	11.3	10.9	10.0	10.4	10.0	9.9								
4554	12.2	12.2	12.4	12.1	11.5	13.0	12.6	12.7	11.9	12.2	12.5	12.0	11.6							
4555	8.4	9.4	8.5	9.2	8.3	8.9	8.3	8.4	9.4	8.5	8.1	7.5	8.0	8.1	7.5	8.1	8.2			
4556	9.5	11.8	6.6	6.1	4.9	11.6	10.7	9.5	10.4	9.7	11.5	11.5	10.1	M						
4557	10.5	11.2	10.7	10.4	11.0	11.2	10.2	11.0	10.4	9.6	10.5	9.6	10.4	9.7	M					
4558	9.5	10.2	7.3	9.7	9.7	9.2	9.6	10.2	10.3	8.6	M	9.1	9.6	10.0	9.0	10.2				
4559	10.6	D	10.7	11.1	11.4	10.9	10.7	10.7	10.6	10.4	9.9	10.6	10.0	10.0	11.4	9.9				
4560	9.9	S	10.4	9.6	10.1	9.6	10.7	9.4	9.9	10.7	9.6	9.3	9.8	10.0	9.6					
4561	11.2	12.1	10.5	11.6	11.1	11.8	11.0	10.4	11.3	11.7	11.2	10.3								
4562	8.9	9.5	9.6	9.5	9.3	9.2	8.8	9.6	8.3	9.0	8.8	8.4	8.6	8.1	9.0	8.4	8.3			
4563	10.9	10.9	11.1	11.1	12.0	11.1	9.3	11.8	10.9	10.6	10.5	10.5	11.1							
4564	11.9	12.9	11.6	12.8	12.0	12.3	11.5	11.6	12.9	12.3	11.3	11.4	11.2	11.3	11.8					
4565	NOT PREGNANT																			
4566	9.7	10.7	10.6	9.9	7.2	8.8	9.8	9.6	9.4	10.0	10.1	10.6	10.0	9.6	10.0	8.9	9.3			
4567	9.0	8.8	10.0	9.0	8.8	9.4	9.4	D	8.4	8.7	8.8	9.2	9.1	8.5	8.8	M				
4568	9.7	9.6	10.5	10.0	10.4	9.8	9.2	9.9	9.7	9.6	8.4	10.1								
4569	9.5	9.6	10.7	10.6	10.4	9.9	9.0	9.4	10.0	9.7	10.7	8.6	8.3	9.6	8.4	8.3	9.1	9.6		
4570	9.8	9.4	10.0	10.0	10.9	10.0	9.5	9.5	9.5	9.3	10.0	10.2	10.4	9.5	9.3					
4571	11.8	S	11.5	12.0	11.6	12.2	12.5	11.6	11.7	12.0	12.2	11.8	11.1	10.2	12.5					
4572	9.3	10.3	9.1	9.2	9.7	9.3	10.0	9.7	9.4	8.3	8.8	9.0	9.3	S						
4573	10.0	11.1	10.1	9.8	11.1	9.6	9.3	10.5	9.9	10.1	9.8	10.0	9.6	9.0	9.9	9.7				
4574	9.1	9.2	9.5	9.5	9.9	8.8	10.3	8.8	10.0	8.1	8.4	8.4	8.2	9.3	8.1	9.5				
4575	10.2	11.3	9.8	9.1	10.2	11.3	10.6	10.4	9.0	9.4	10.3	10.6	9.8	10.6	9.9	10.2				
4576	10.0	10.0	9.8	10.4	10.0	9.7	10.0	10.3	10.0	9.8	10.3	10.0	9.7	9.9	9.7	10.3				

MEAN 10.1
S.D. 0.95
N 25

PUP STATUS CODES: S-STILLBORN D-DIED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP I 0 MG/M3 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
1551	15.8	S	16.8	15.4	16.4	16.5	16.1	15.9	15.0	15.7	14.3	16.2								
1552	12.4	13.7	11.9	13.2	12.9	12.2	C	11.0	12.2	12.3	11.4	C	C	C	C	C	12.7			
1553	13.7	C	C	15.0	13.6	14.9	13.0	12.3	C	C	13.1	13.4	14.1	14.7	13.3					
1554	14.7	15.9	14.0	C	14.7	C	C	15.6	16.1	12.7	14.4	14.3	15.0	14.1						
1555	16.0	C	16.7	17.2	17.8	15.3	16.5	C	C	15.4	14.9	15.0	15.2	16.3						
1556	12.5	13.1	12.8	12.2	13.2	13.0	M	12.5	C	12.4	11.8	11.6	12.5	C						
1557	14.9	C	13.4	C	15.7	16.3	15.3	15.5	13.8	16.6	13.5	14.5	14.6							
1558	14.2	14.6	15.5	13.3	14.5	14.9	14.2	C	14.8	13.6	C	13.3	13.5							
1559	12.8	C	13.8	13.2	12.6	C	13.2	13.4	C	C	11.6	12.2	C	12.7	12.3	12.6				
1560	15.9	16.5	16.3	16.0	16.4	16.0	16.0	15.0	15.1	C	16.0	15.7								
1561	15.8	15.8	17.4	16.5	C	C	C	C	C	16.9	16.5	16.0	15.6	14.8	13.9	14.5				
1562	15.8	S	17.5	M	C	16.6	C	16.1	16.1	15.9	16.6	15.6	15.4	C	12.2	15.6				
1563	12.2	13.7	11.5	11.8	11.3	14.0	C	C	11.3	11.4	11.6	C	13.3	12.3						
1564	18.2	S	18.6	19.2	18.8	17.5	17.5	18.3	17.2											
1565	13.7	13.1	13.6	15.0	14.0	C	12.3	C	14.9	12.9	13.6	13.1	14.2	C	C	C				
1566	15.5	S	15.9	16.4	15.2	C	15.1	16.1	C	15.8	15.6	15.2	15.1	14.6						
1567	15.6	S	15.7	16.8	15.9	C	15.8	15.4	C	C	C	C	15.6	15.3	15.0	14.9	15.4			
1568	14.5	14.8	15.3	15.6	14.6	14.0	12.8	14.5	C	C	14.4	13.9	14.9							
1569	13.9	14.4	13.7	C	14.6	13.9	14.6	14.0	C	13.9	13.8	12.7	13.1	C						
1570	13.7	14.1	13.5	C	14.5	14.5	C	14.4	C	13.2	12.8	12.4	14.0	13.4						
1571	14.2	15.0	14.5	14.1	14.3	14.5	C	C	13.4	14.3	13.8	12.8	C	15.0						
1572	17.0	18.4	18.4	17.6	C	C	C	17.9	C	17.2	15.5	15.6	C	16.4	16.3	17.0				
1573	13.9	C	14.5	C	15.0	12.8	C	14.7	14.8	12.3	M	13.7	C	13.7	14.0	13.9				
1574	16.6	17.1	C	17.9	C	17.7	16.5	16.0	15.3	16.2	16.3	C	16.0	16.9						
1575	14.5	C	14.7	11.9	15.3	15.1	13.1	15.8	16.5	14.9	14.5	12.9								
1576	NOT PREGNANT																			

MEAN	14.7
S.D.	1.50
N	25

PUP STATUS CODES: S-STILLBORN C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP II 2000 MG/M3 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
2551	13.8	15.3	15.0	C	15.6	15.1	12.8	14.6	C	C	12.7	12.5	14.1	10.6						
2552	13.9	15.0	C	C	C	14.5	13.7	13.3	C	13.8	14.2	14.4	C	13.5	12.6	C	14.1			
2553	13.4	14.3	14.2	14.0	12.6	13.5	12.1	C	C	12.8	12.6	13.5	C	C	14.0					
2554	15.8	16.1	16.2	17.2	C	15.8	15.4	15.8	15.8	14.3	14.9	C	C	C	16.5					
2555	15.5	S	16.9	15.2	14.8	C	C	16.2	16.1	C	C	C	15.5	13.7	15.9	C	14.9	16.1		
2556	11.8	11.8	11.5	12.8	11.3	11.4	C	C	11.7	12.3	11.7	12.3	11.5							
2557	13.3	C	13.5	14.5	13.1	14.2	12.4	C	C	12.8	13.0	13.2	12.8	13.2	C					
2558	13.7	C	13.7	C	14.7	15.0	13.6	12.8	12.9	14.5	15.0	13.4	C	D	11.8	C				
2559	12.8	14.0	14.0	13.5	11.1	12.7	C	13.3	11.9	11.5	C	14.1	C	C	11.8	C	C	C		
2560	15.7	15.8	16.8	17.3	C	C	15.6	C	15.3	15.0	C	16.0	16.1	15.4	C	13.6	C			
2561	15.4	16.2	C	14.0	D	16.8	C	15.4	C	14.3	16.3	15.9	15.6	14.7	15.2					
2562	12.7	C	13.9	12.5	13.4	C	10.1	13.0	13.4	11.4	13.2	13.0	13.2							
2563	12.4	C	C	13.3	12.2	12.7	13.5	C	12.9	C	11.2	12.1	12.2	12.1	12.3	C				
2564	14.4	14.4	14.4	14.4	14.9	15.7	14.2	C	14.2	13.3	14.1	14.2								
2565	14.7	C	C	C	15.9	14.9	14.7	C	14.7	13.9	15.2	15.1	14.1	13.8	14.7					
2566	NOT PREGNANT																			
2567	17.5	S	18.2	17.5	18.0	C	C	19.0	18.1	16.8	C	17.1	16.7	17.2	16.8					
2568	16.4	16.7	17.3	16.8	15.3	16.9	C	C	16.4	C	16.2	16.3	16.6	15.4						
2569	14.7	15.3	C	C	C	14.4	15.7	13.9	M	15.2	13.9	15.6	13.9	15.0	14.3					
2570	14.4	S	15.0	16.1	15.0	14.8	C	13.1	14.6	13.6	14.0	14.4	13.5							
2571	16.7	S	17.8	17.7	C	17.0	16.8	18.0	16.9	16.1	16.3	14.3	16.1							
2572	17.0	17.7	18.6	17.9	17.8	16.3	17.2	15.2	15.4											
2573	15.7	14.5	17.7	16.1	13.5	16.6	C	C	C	15.9	C	16.4	15.0	16.2	15.1					
2574	11.3	S	C	C	C	11.1	11.7	12.6	12.6	11.9	10.6	11.7	C	11.2	9.0	10.2	C	C		
2575	15.0	D	15.2	14.8	16.2	15.7	C	C	16.0	13.6	15.0	C	C	14.1	16.2	13.6	C			
2576	14.6	15.4	14.8	15.0	15.6	15.1	C	C	13.6	13.3	15.5	13.6	14.5							

MEAN 14.5
S.D. 1.62
N 25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

GASOLINE ETHANOL 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 7

FEMALE#	MEAN	PUP# 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
3551	13.7	13.5	13.4	14.1	13.8	13.8	15.1	13.7	12.8	D	13.7	12.9								
3552	NOT PREGNANT																			
3553	15.1	15.5	15.4	16.7	13.6	14.1	C	15.7	16.2	14.5	C	14.6	C	C	14.8					
3554	11.9	S	11.4	12.9	13.0	11.5	12.1	12.7	10.1	C	C	12.3	11.5	11.4						
3555	16.7	C	17.7	16.6	16.1	16.1	17.6	C	16.1	16.9	16.6	16.7	16.5							
3556	13.6	14.4	C	C	12.1	14.4	13.6	13.5	14.3	13.3	13.7	13.7	M	13.3						
3557	13.9	14.8	C	C	C	C	14.2	13.8	14.1	14.5	12.9	13.1	C	14.6	13.5	13.7				
3558	12.7	13.4	12.6	12.0	13.7	C	11.9	C	12.8	13.1	13.7	C	12.1	11.6						
3559	14.9	C	15.4	13.9	13.8	14.9	15.6	C	C	15.5	15.1	C	14.8	14.9	C	14.6				
3560	14.6	15.6	14.1	15.0	C	C	C	14.3	15.2	C	C	C	13.3	15.9	13.7	14.7	14.4			
3561	16.4	16.3	16.4	17.3	16.5	17.1	16.7	15.8	15.1	16.6	C	16.4	C							
3562	13.2	12.9	13.6	13.4	C	C	C	12.9	C	C	14.3	C	12.5	12.9	12.1	14.1	13.3			
3563	15.3	15.2	16.0	16.0	16.1	16.5	C	C	14.9	14.4	14.7	14.4	15.0							
3564	12.3	13.0	C	11.8	13.2	12.5	C	12.9	C	12.2	11.4	12.1	11.8	12.1						
3565	12.9	12.5	13.6	13.7	12.6	12.4	13.0	12.7	C	12.5	13.3	12.6								
3566	11.3	11.9	11.8	12.5	12.0	11.5	C	C	10.8	11.1	C	C	10.5	D	10.7	10.4				
3567	13.9	14.8	C	15.5	13.4	13.9	13.7	13.4	13.8	13.1	14.2	C	13.6							
3568	13.3	C	13.0	13.1	C	C	C	13.2	13.8	13.9	13.0	C	12.9	12.6	14.4	13.5				
3569	19.1	18.6	19.6	M	19.1	M														
3570	14.6	15.1	14.9	14.8	15.3	15.2	C	C	C	C	13.8	14.1	14.5	13.6	14.3					
3571	13.9	13.9	C	C	15.0	14.8	14.6	14.0	12.2	14.1	C	13.7	14.5	12.7	C	C				
3572	13.7	C	12.5	C	C	15.1	14.9	C	14.2	14.2	C	14.0	C	12.5	11.9	13.5	14.5			
3573	15.9	17.3	16.4	16.3	16.0	16.6	C	15.4	C	C	15.7	C	15.7	15.7	C	14.4				
3574	14.0	14.8	13.9	13.2	C	14.5	15.2	C	C	13.8	13.4	13.5	13.5	14.4						
3575	12.9	13.0	C	12.4	12.0	14.0	12.9	C	12.8	13.4	C	C	11.7	13.2	C	13.7				
3576	13.6	14.9	C	C	14.9	12.6	C	13.0	13.3	12.4	13.1	13.8	14.3	13.2	C					

MEAN 14.1
S.D. 1.67
N 25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP IV 20000 MG/M3 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
4551	13.4	C	15.1	13.6	12.3	C	13.7	13.0	13.4	C	14.3	13.0	12.3	13.6						
4552	14.6	15.2	C	C	C	14.6	13.6	C	C	16.7	C	C	16.1	14.4	14.3	15.4	12.7	13.4		
4553	13.1	13.1	13.5	13.0	13.4	C	13.4	14.2	12.7	12.9	12.1	12.4								
4554	17.0	17.1	17.6	16.9	15.9	C	17.2	17.4	17.2	17.5	C	17.2	16.3							
4555	11.8	13.0	12.4	C	C	13.4	C	12.0	12.1	C	C	C	11.2	11.6	9.8	10.6	11.6			
4556	13.6	16.4	7.5	7.3	D	16.6	14.6	13.8	C	13.8	C	16.5	16.3	M						
4557	14.1	C	C	14.2	15.1	15.0	14.2	14.6	14.2	13.6	13.8	13.2	13.6	C	M					
4558	13.3	14.8	10.1	13.8	13.8	C	13.7	C	C	12.9	M	12.7	13.7	14.7	12.9	C				
4559	15.0	D	C	15.9	16.2	15.1	15.1	15.0	14.9	C	C	14.3	14.1	14.4	15.4	C				
4560	13.0	S	C	13.6	13.4	13.2	14.1	12.8	C	C	13.1	11.3	12.1	13.4	13.3					
4561	14.4	15.4	13.6	15.1	14.9	C	14.3	13.4	14.8	15.1	14.6	13.0								
4562	12.9	14.4	C	C	C	C	13.6	13.3	12.0	12.7	13.1	12.3	C	C	13.1	11.9	12.9			
4563	15.2	15.4	16.0	15.2	16.1	15.5	13.4	C	15.2	15.1	15.1	C	15.1							
4564	16.2	16.1	16.0	16.8	16.8	16.5	C	16.5	C	C	16.2	C	15.2	15.9	15.9					
4565	NOT PREGNANT																			
4566	14.2	14.8	16.0	15.0	10.9	13.1	C	C	14.1	14.8	14.9	15.2	C	C	C	13.3	C			
4567	12.0	11.6	12.6	11.5	C	12.5	12.5	D	C	11.3	11.9	12.2	12.3	11.6	C	M				
4568	13.6	13.7	14.6	14.1	14.3	14.1	12.8	13.5	12.8	C	11.3	14.4								
4569	13.8	14.5	13.9	C	C	15.1	13.7	13.5	C	C	C	C	C	14.8	13.2	12.2	13.5	13.8		
4570	13.7	13.2	14.4	13.2	14.7	13.3	13.1	C	13.1	C	C	13.9	14.9	12.8	C					
4571	16.7	S	16.9	17.4	16.6	C	17.9	16.6	16.7	C	C	16.4	16.2	15.0	16.8					
4572	11.2	C	11.0	11.4	12.8	10.6	11.7	C	10.6	10.6	10.8	11.4	11.2	S						
4573	13.1	C	13.7	13.5	14.7	13.0	11.5	C	C	C	12.1	13.4	13.5	12.7	13.1	C				
4574	13.1	13.1	13.3	13.4	C	12.1	14.7	13.3	13.4	12.2	C	C	C	12.7	C	12.9				
4575	14.1	16.0	14.1	12.7	C	C	14.9	14.2	13.3	C	C	14.7	13.4	14.2	13.8	C				
4576	14.3	C	14.8	15.2	14.2	14.0	C	C	C	14.5	14.7	14.2	13.2	C	13.8	14.9				

MEAN 13.9
S.D. 1.39
N 25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP I 0 MG/M3 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
1551	25.1	S	26.8	25.2	25.7	25.9	24.9	25.5	23.7	24.7	23.5	24.7								
1552	22.5	23.9	23.2	23.3	24.4	21.4	C	19.6	22.4	21.4	22.5	C	C	C	C	C	23.0			
1553	23.6	C	C	24.9	23.4	24.7	22.7	24.5	C	C	21.7	22.5	23.4	24.3	23.5					
1554	25.8	27.4	24.9	C	26.6	C	C	25.5	27.9	23.1	25.4	26.6	26.6	24.1						
1555	29.7	C	30.6	31.1	31.8	29.4	29.4	C	C	29.0	28.1	28.3	29.3	30.0						
1556	22.2	23.5	22.2	21.1	23.3	22.1	M	22.5	C	22.6	21.6	20.9	22.3	C						
1557	28.0	C	25.8	C	28.5	29.7	29.0	29.5	26.9	29.3	26.4	27.5	27.3							
1558	24.9	25.5	26.7	23.2	25.1	24.7	25.1	C	25.4	25.3	C	23.8	23.9							
1559	24.3	C	25.4	25.6	23.7	C	24.2	24.7	C	C	22.3	22.8	C	25.8	24.0	24.1				
1560	25.5	26.7	25.8	25.4	25.8	25.5	25.2	25.4	24.7	C	25.7	25.2								
1561	25.9	26.2	27.5	27.4	C	C	C	C	C	27.2	26.2	25.5	26.1	25.0	23.2	25.1				
1562	26.4	S	28.2	M	C	27.1	C	26.6	26.1	26.8	28.0	25.9	26.1	C	22.5	26.3				
1563	22.4	24.7	22.0	18.0	22.0	25.0	C	C	21.3	23.6	21.1	C	24.1	22.6						
1564	31.2	S	32.1	32.3	31.9	30.9	29.4	31.6	30.4											
1565	24.3	24.3	24.4	24.5	25.7	C	22.0	C	26.7	23.1	24.0	23.6	24.6	C	C	C				
1566	26.9	S	26.7	27.3	26.0	C	26.4	28.4	C	27.4	26.9	26.4	26.4	26.7						
1567	27.3	S	27.2	27.5	27.8	C	28.7	26.5	C	C	C	C	28.2	26.5	26.6	26.4	28.0			
1568	26.5	27.5	28.3	28.1	27.1	26.1	22.3	26.1	C	C	26.6	26.3	26.2							
1569	26.1	26.8	26.0	C	28.1	26.6	26.4	26.9	C	25.1	26.0	25.0	24.6	C						
1570	24.1	25.3	23.9	C	24.8	24.7	C	25.7	C	23.2	23.0	22.9	23.7	23.9						
1571	22.8	23.7	22.9	23.7	23.0	23.2	C	C	21.5	22.6	22.2	22.3	C	22.4						
1572	27.7	29.2	28.0	28.2	C	C	C	29.2	C	29.4	25.3	26.8	C	27.7	27.0	26.6				
1573	24.3	C	25.6	C	26.4	23.3	C	24.1	24.4	22.0	M	24.6	C	24.6	23.8	23.9				
1574	27.8	29.0	C	29.5	C	29.5	27.5	27.6	26.4	28.2	26.8	C	26.9	26.5						
1575	25.3	C	26.1	22.8	26.4	26.9	23.2	25.8	27.0	26.0	25.3	23.9								
1576	NOT PREGNANT																			

MEAN	25.6
S.D.	2.25
N	25

PUP STATUS CODES: S-STILLBORN C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP II 2000 MG/M3 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
2551	24.4	25.9	26.4	C	27.1	25.0	23.1	25.4	C	C	23.4	22.8	24.5	20.7						
2552	26.0	26.3	C	C	C	27.2	24.6	25.6	C	26.5	27.1	27.1	C	25.4	23.4	C	26.4			
2553	23.3	24.9	24.4	25.0	21.7	23.7	20.9	C	C	21.7	22.6	23.8	C	C	24.0					
2554	26.6	27.3	27.9	28.1	C	27.5	25.6	25.7	26.9	24.8	25.9	C	C	C	26.6					
2555	26.9	S	28.7	25.9	26.1	C	C	27.7	28.1	C	C	C	27.2	23.7	27.1	C	27.2	27.2		
2556	20.7	20.4	20.1	22.3	20.4	19.8	C	C	20.4	21.5	19.7	21.0	21.2							
2557	26.0	C	27.5	27.8	26.3	24.9	26.5	C	C	26.0	25.3	25.4	25.2	25.4	C					
2558	24.6	C	24.4	C	26.1	26.5	23.0	22.8	24.1	26.7	26.2	25.4	C	D	21.1	C				
2559	21.6	23.1	23.2	23.1	17.8	21.9	C	21.9	20.4	20.3	C	24.6	C	C	20.2	C	C	C		
2560	29.2	30.0	29.8	30.2	C	C	28.6	C	27.7	28.9	C	29.8	29.6	29.8	C	27.4	C			
2561	26.0	26.3	C	25.8	D	27.0	C	25.2	C	24.9	27.4	26.2	26.5	25.4	25.4					
2562	20.8	C	22.1	22.2	22.3	C	14.9	20.9	21.4	19.4	22.6	21.3	21.1							
2563	25.0	C	C	25.5	24.5	26.2	26.7	C	25.5	C	22.8	24.4	24.2	24.5	26.2	C				
2564	24.6	24.5	25.2	24.7	25.7	26.3	24.0	C	23.8	23.4	24.4	24.0								
2565	25.8	C	C	C	28.3	25.0	26.8	C	26.4	24.9	27.0	27.1	24.6	24.5	23.3					
2566	NOT PREGNANT																			
2567	30.1	S	30.4	30.6	30.3	C	C	32.0	31.9	30.3	C	29.1	29.1	28.9	28.7					
2568	28.0	27.7	29.0	28.5	27.5	28.7	C	C	27.9	C	27.4	28.5	28.1	26.3						
2569	24.5	25.5	C	C	C	23.4	25.8	24.2	M	24.5	23.2	25.1	23.6	24.8	24.7					
2570	24.1	S	25.0	26.5	24.6	24.6	C	22.7	23.5	23.1	24.1	23.8	22.7							
2571	27.1	S	27.0	29.3	C	28.1	27.4	27.7	27.5	26.7	26.0	24.1	26.8							
2572	29.3	31.0	30.9	30.2	30.2	27.2	29.8	27.3	27.7											
2573	27.4	25.9	29.1	27.7	23.9	28.8	C	C	C	29.3	C	29.5	25.6	28.1	26.0					
2574	21.9	S	C	C	C	21.9	22.8	23.2	23.6	23.6	20.2	22.6	C	22.9	18.4	20.2	C	C		
2575	28.6	D	29.1	29.0	31.7	29.5	C	C	30.0	27.1	28.2	C	C	27.0	29.2	25.1	C			
2576	26.3	27.4	27.1	27.1	27.5	26.3	C	C	25.4	25.0	26.8	24.8	25.4							

MEAN 25.6
S.D. 2.58
N 25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

GASOLINE ETHANOL 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 14

FEMALE#	MEAN	PUP# 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
3551	22.1	21.5	22.1	22.6	21.5	22.9	23.7	21.5	20.6	D	22.7	21.5								
3552	NOT PREGNANT																			
3553	25.8	26.7	26.0	28.1	24.3	26.3	C	25.6	26.9	24.9	C	24.9	C	C	24.3					
3554	21.9	S	21.2	20.3	24.7	22.7	22.7	22.5	18.8	C	C	22.3	22.4	21.0						
3555	28.2	C	28.5	28.6	27.5	26.9	30.0	C	27.5	27.3	28.4	28.9	28.5							
3556	23.3	22.4	C	C	20.7	24.4	23.7	23.7	25.3	23.3	22.8	23.5	M	23.2						
3557	24.2	24.1	C	C	C	C	25.8	24.6	23.8	25.1	22.3	23.9	C	26.2	22.8	23.8				
3558	21.6	22.3	21.7	20.9	23.0	C	21.3	C	20.7	21.6	23.0	C	21.1	20.5						
3559	27.8	C	29.1	27.6	26.9	26.8	28.7	C	C	27.1	28.2	C	27.7	28.1	C	27.3				
3560	25.9	26.8	25.3	27.0	C	C	C	25.7	25.8	C	C	C	24.3	27.2	24.6	26.1	26.4			
3561	24.7	25.2	24.6	26.6	22.8	25.6	24.3	24.1	23.2	25.6	C	24.8	C							
3562	24.7	22.5	25.2	25.7	C	C	C	25.5	C	C	25.6	C	23.4	24.1	22.4	25.4	26.9			
3563	26.8	25.8	28.3	27.8	28.2	27.9	C	C	25.4	25.9	26.0	25.9	27.0							
3564	20.4	21.3	C	20.5	20.0	20.5	C	20.8	C	21.1	18.1	20.4	20.4	20.5						
3565	21.7	20.8	23.2	23.5	20.5	21.2	22.0	22.2	C	21.1	21.6	21.3								
3566	20.7	22.4	20.6	22.5	21.9	20.6	C	C	20.3	20.7	C	C	20.2	D	18.9	19.1				
3567	24.8	25.5	C	27.7	23.9	25.6	23.5	24.9	23.6	24.4	24.4	C	24.3							
3568	23.1	C	21.8	23.2	C	C	C	23.9	22.9	24.1	22.6	C	22.8	22.5	24.2	22.7				
3569	30.0	29.7	29.1	M	31.2	M														
3570	24.9	25.3	23.9	26.1	25.0	27.3	C	C	C	C	23.6	24.2	25.3	24.2	24.2					
3571	24.7	25.6	C	C	26.3	26.8	24.8	23.8	23.7	23.9	C	25.2	24.3	22.4	C	C				
3572	23.8	C	23.2	C	C	26.9	24.1	C	22.9	23.7	C	22.8	C	22.3	21.6	24.0	26.2			
3573	29.5	32.3	30.5	29.5	30.9	30.5	C	26.6	C	C	29.5	C	27.8	29.7	C	27.5				
3574	24.3	25.1	24.6	23.2	C	24.4	25.9	C	C	24.7	23.6	23.2	23.7	24.5						
3575	26.1	25.8	C	25.3	25.2	27.1	26.6	C	26.0	28.0	C	C	23.6	26.7	C	26.8				
3576	24.9	26.0	C	C	26.8	23.0	C	24.8	25.3	23.3	24.7	23.9	25.6	25.1	C					

MEAN 24.6
S.D. 2.55
N 25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP IV 20000 MG/M3 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
4551	22.4	C	22.9	23.3	21.4	C	22.8	21.7	23.0	C	23.3	21.1	21.4	23.0						
4552	27.9	29.9	C	C	C	27.9	26.9	C	C	28.9	C	C	29.5	28.0	27.1	30.3	22.8	27.8		
4553	22.0	21.6	21.3	22.1	23.2	C	23.3	22.7	21.6	22.0	21.3	20.6								
4554	27.9	27.2	29.1	27.0	28.5	C	28.8	27.8	27.6	28.0	C	27.7	26.8							
4555	22.2	24.7	22.7	C	C	25.0	C	22.3	23.1	C	C	C	20.9	21.0	19.4	21.5	21.4			
4556	22.9	28.1	11.1	7.0	D	28.2	26.7	24.9	C	25.1	C	28.1	26.8	M						
4557	22.5	C	C	23.4	24.2	22.7	22.5	21.9	22.5	22.8	22.6	21.4	21.1	C	M					
4558	22.6	23.5	18.4	23.5	24.6	C	23.1	C	C	23.1	M	21.3	22.2	24.1	21.8	C				
4559	25.6	D	C	26.9	25.5	24.6	26.6	26.2	26.7	C	C	25.7	23.5	24.6	25.5	C				
4560	23.2	S	C	23.8	23.4	23.2	25.8	23.2	C	C	23.1	21.3	22.3	23.8	22.5					
4561	24.6	26.2	24.0	25.5	25.3	C	24.9	22.6	25.1	25.1	24.9	21.9								
4562	23.0	25.1	C	C	C	C	24.4	23.9	21.1	24.0	23.1	22.6	C	C	23.3	20.6	21.4			
4563	25.6	24.9	27.0	25.7	26.8	25.8	23.3	C	25.4	24.9	26.0	C	26.3							
4564	26.9	26.0	26.6	27.6	26.8	27.9	C	27.9	C	C	25.9	C	26.6	26.2	27.0					
4565	NOT PREGNANT																			
4566	25.4	26.8	29.7	24.9	19.7	24.1	C	C	24.8	26.7	26.4	26.3	C	C	C	24.2	C			
4567	21.7	20.8	22.2	21.6	C	22.3	23.0	D	C	20.5	21.6	21.9	22.6	20.4	C	M				
4568	23.1	22.9	24.0	24.2	24.6	23.9	22.8	21.4	22.2	C	21.3	23.9								
4569	24.0	23.7	25.9	C	C	27.7	24.9	21.9	C	C	C	C	C	24.4	24.1	21.5	20.7	25.1		
4570	24.0	25.1	22.9	23.6	25.4	24.3	22.7	C	22.8	C	C	24.1	25.8	23.6	C					
4571	28.4	S	28.9	28.8	28.4	C	30.8	28.2	28.9	C	C	27.9	27.6	25.9	28.4					
4572	20.3	C	19.4	19.7	23.1	18.7	20.6	C	19.6	19.8	20.4	21.3	20.0	S						
4573	23.9	C	23.1	25.4	25.1	24.6	21.7	C	C	C	23.4	24.9	24.0	23.1	23.2	C				
4574	23.3	23.0	21.9	23.8	C	22.4	24.8	23.7	23.8	22.4	C	C	C	23.1	C	23.8				
4575	25.5	29.4	25.7	22.5	C	C	26.4	26.6	23.2	C	C	26.4	25.2	24.7	25.2	C				
4576	24.3	C	25.0	24.6	24.7	23.7	C	C	C	25.2	24.0	24.6	23.1	C	23.7	24.7				

MEAN 24.1
S.D. 2.09
N 25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP I 0 MG/M3 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
1551	44.2	S	50.3	45.5	46.7	43.5	44.8	44.7	42.1	41.8	38.2	44.7								
1552	34.4	37.4	35.6	34.7	39.7	29.8	C	28.9	32.5	33.9	34.5	C	C	C	C	C	36.8			
1553	39.4	C	C	42.5	37.4	40.5	38.2	41.7	C	C	36.7	37.4	40.8	41.6	37.1					
1554	41.0	45.0	41.2	C	42.3	C	C	41.2	41.7	34.2	41.0	43.3	42.2	38.1						
1555	46.0	C	45.9	46.0	47.8	45.3	45.1	C	C	46.1	44.2	42.8	49.7	46.8						
1556	36.0	38.3	38.2	34.3	35.1	36.0	M	37.3	C	37.8	35.7	31.5	35.9	C						
1557	41.6	C	36.2	C	43.6	42.8	45.6	46.6	40.9	44.9	36.6	40.8	38.3							
1558	41.1	41.2	46.6	36.8	40.3	42.2	42.4	C	42.3	38.3	C	38.7	42.3							
1559	39.7	C	40.1	42.0	37.5	C	40.4	40.8	C	C	34.4	39.4	C	42.8	40.8	39.2				
1560	44.9	47.5	47.3	44.7	45.4	43.5	45.4	44.4	42.1	C	43.4	45.1								
1561	41.8	38.0	46.2	46.3	C	C	C	C	C	44.7	42.7	41.3	42.2	38.2	37.6	41.2				
1562	41.1	S	45.0	M	C	44.9	C	44.7	41.3	43.2	41.8	36.6	39.9	C	33.6	39.6				
1563	33.1	36.5	33.6	27.6	32.3	35.8	C	C	31.9	33.9	30.7	C	35.3	33.5						
1564	51.9	S	54.1	55.7	54.5	48.9	47.2	50.4	52.2											
1565	38.9	38.7	39.0	40.0	41.7	C	35.6	C	41.4	34.6	39.8	38.2	39.9	C	C	C				
1566	46.3	S	45.8	48.9	43.4	C	46.3	46.4	C	47.2	46.9	46.8	45.2	45.8						
1567	43.6	S	45.5	44.7	41.3	C	45.1	42.4	C	C	C	C	45.0	44.3	43.1	43.2	41.6			
1568	40.8	38.2	48.3	47.2	39.3	38.3	29.0	43.4	C	C	43.2	40.6	40.7							
1569	43.2	45.1	44.4	C	44.5	45.2	43.2	42.2	C	40.7	42.6	40.8	43.1	C						
1570	40.7	44.0	39.7	C	43.0	42.1	C	42.5	C	39.0	38.4	36.6	40.8	40.4						
1571	38.3	42.2	38.1	37.1	38.7	39.9	C	C	35.4	38.6	39.6	35.0	C	38.2						
1572	44.0	49.2	46.0	42.8	C	C	C	47.3	C	45.1	43.1	40.2	C	42.0	39.9	44.1				
1573	37.5	C	41.3	C	42.4	34.1	C	37.6	38.9	31.6	M	36.6	C	35.7	36.1	40.6				
1574	43.1	43.4	C	44.0	C	46.8	42.6	44.4	40.1	43.4	40.8	C	43.2	42.2						
1575	40.6	C	42.0	33.9	41.1	46.6	34.4	41.1	43.4	41.8	42.6	39.1								
1576	NOT PREGNANT																			

MEAN	41.3
S.D.	3.97
N	25

PUP STATUS CODES: S-STILLBORN C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP II 2000 MG/M3 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
2551	41.0	45.3	44.2	C	45.2	42.4	39.9	44.2	C	C	36.3	38.5	42.0	31.9						
2552	43.6	43.7	C	C	C	46.5	42.7	39.1	C	44.7	45.6	45.4	C	42.6	39.4	C	46.0			
2553	36.6	39.1	38.0	39.6	33.2	35.9	33.5	C	C	33.4	36.0	38.5	C	C	38.5					
2554	42.9	43.2	44.1	44.8	C	43.7	41.9	43.0	45.3	33.6	43.6	C	C	C	45.5					
2555	45.9	S	47.3	47.6	45.4	C	C	45.2	49.4	C	C	C	44.6	42.1	45.2	C	46.7	45.0		
2556	36.8	37.0	31.7	37.1	36.9	35.9	C	C	37.4	38.6	36.1	38.4	38.6							
2557	42.7	C	43.7	45.2	44.2	40.0	44.7	C	C	41.7	41.4	41.7	43.2	40.7	C					
2558	36.8	C	36.0	C	40.2	41.0	36.9	33.4	34.8	38.6	38.0	36.8	C	D	31.8	C				
2559	36.9	39.8	39.9	40.9	30.6	36.6	C	37.2	34.7	33.8	C	41.6	C	C	33.8	C	C	C		
2560	46.8	50.6	49.6	49.1	C	C	45.8	C	45.6	48.3	C	48.7	43.9	44.0	C	42.7	C			
2561	46.4	49.7	C	45.3	D	50.3	C	47.2	C	44.7	50.3	46.6	41.6	42.4	45.9					
2562	32.1	C	35.2	31.4	36.2	C	21.1	30.4	33.7	28.2	36.5	35.3	33.2							
2563	40.0	C	C	40.0	39.2	41.5	42.2	C	40.7	C	36.9	40.3	36.6	39.1	43.8	C				
2564	46.4	45.5	48.1	46.1	50.9	48.8	45.9	C	44.9	44.0	45.4	44.5								
2565	43.8	C	C	C	48.5	41.5	45.9	C	44.0	41.2	45.8	45.6	40.4	41.5	43.5					
2566	NOT PREGNANT																			
2567	49.2	S	50.8	51.7	49.5	C	C	51.7	51.6	48.9	C	47.2	46.2	46.7	47.7					
2568	47.7	45.7	48.6	51.3	46.6	47.4	C	C	49.4	C	47.2	48.2	47.9	44.9						
2569	39.8	43.9	C	C	C	39.7	45.3	39.2	M	34.8	35.5	42.1	40.7	40.4	36.1					
2570	41.0	S	43.3	47.0	39.9	43.3	C	37.4	42.0	38.7	37.3	41.2	39.9							
2571	46.5	S	46.4	51.8	C	45.8	44.6	46.5	47.7	47.2	44.3	41.7	48.5							
2572	48.8	51.6	52.3	51.1	49.5	47.3	47.6	44.1	46.9											
2573	47.3	43.5	49.1	48.1	42.3	49.0	C	C	C	51.3	C	49.1	45.3	50.9	44.4					
2574	33.5	S	C	C	C	33.6	34.2	34.8	34.8	35.3	31.2	34.5	C	33.1	33.0	30.4	C	C		
2575	46.9	D	47.0	42.2	53.9	53.1	C	C	51.0	46.9	50.4	C	C	42.2	42.4	39.7	C			
2576	45.0	48.5	45.5	47.0	46.1	46.6	C	C	43.2	40.6	46.7	42.2	43.2							

MEAN 42.6
S.D. 4.91
N 25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

GASOLINE ETHANOL 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 21

FEMALE#	MEAN	PUP# 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
3551	34.6	33.6	35.0	34.3	35.4	38.5	32.3	30.4	36.6	D	35.1	34.6								
3552	NOT PREGNANT																			
3553	43.5	47.5	40.4	48.6	41.3	47.4	C	40.7	43.9	45.5	C	37.2	C	C	42.4					
3554	36.9	S	35.4	33.5	42.9	38.0	39.5	37.6	31.5	C	C	37.8	38.3	34.8						
3555	49.9	C	51.8	50.6	49.0	46.3	52.0	C	49.3	48.6	50.6	51.8	49.4							
3556	37.1	36.6	C	C	32.6	37.3	38.6	36.8	41.4	38.1	35.3	36.1	M	37.9						
3557	38.5	39.3	C	C	C	C	43.6	36.9	38.5	40.9	34.6	38.8	C	40.9	34.6	36.8				
3558	34.1	35.3	32.2	32.9	35.6	C	33.5	C	33.7	35.0	37.2	C	33.7	32.2						
3559	51.0	C	56.1	45.9	49.4	49.9	54.6	C	C	50.6	52.2	C	50.9	51.7	C	48.2				
3560	45.8	47.7	45.5	47.3	C	C	C	45.5	46.6	C	C	C	42.2	46.8	45.1	44.5	46.7			
3561	42.2	42.6	43.5	47.3	36.3	43.0	42.3	42.8	35.4	47.5	C	41.8	C							
3562	41.0	35.9	41.3	41.3	C	C	C	42.7	C	C	44.4	C	38.4	38.4	38.6	43.9	45.5			
3563	43.6	41.5	48.5	46.2	45.4	45.6	C	C	38.9	41.6	42.8	43.1	42.5							
3564	32.0	35.4	C	32.8	30.0	32.3	C	31.7	C	33.3	26.6	33.0	34.3	31.1						
3565	37.5	35.8	40.8	41.9	35.0	36.4	37.1	36.5	C	37.8	37.5	35.9								
3566	35.3	37.5	34.4	38.7	34.9	34.2	C	C	35.9	35.6	C	C	35.2	D	32.7	34.1				
3567	39.8	40.7	C	43.5	40.7	38.8	42.5	39.0	39.0	37.6	35.4	C	40.9							
3568	34.9	C	34.7	34.7	C	C	C	35.0	35.7	37.1	33.0	C	35.0	33.9	36.1	33.7				
3569	49.2	47.1	50.1	M	50.5	M														
3570	42.7	45.0	40.9	45.3	43.5	46.5	C	C	C	C	39.6	42.6	43.6	39.1	41.2					
3571	41.1	42.1	C	C	44.0	45.9	42.0	36.2	37.3	38.7	C	43.1	42.3	39.3	C	C				
3572	40.6	C	41.0	C	C	45.1	41.3	C	40.4	39.3	C	38.5	C	38.5	36.0	41.8	44.3			
3573	44.9	49.3	47.7	44.5	45.3	49.4	C	41.3	C	C	44.8	C	40.3	45.1	C	41.5				
3574	42.6	45.7	45.6	36.9	C	43.3	45.5	C	C	43.1	35.9	41.3	42.8	46.1						
3575	40.9	39.0	C	40.7	40.0	41.6	40.3	C	40.6	44.7	C	C	36.5	41.8	C	43.9				
3576	42.1	45.7	C	C	47.5	37.6	C	41.8	40.8	40.2	41.3	40.8	42.8	43.0	C					

MEAN 40.9
S.D. 4.99
N 25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP IV 20000 MG/M3 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
4551	37.0	C	38.8	38.0	35.7	C	37.6	36.1	36.7	C	38.3	33.6	33.6	41.6						
4552	46.1	49.0	C	C	C	42.0	43.8	C	C	49.2	C	C	50.9	46.8	44.2	48.8	38.3	48.0		
4553	38.0	36.7	38.5	39.3	39.8	C	40.9	38.3	35.8	37.7	36.7	35.9								
4554	48.0	46.4	51.2	47.2	47.8	C	50.9	50.6	47.4	46.4	C	47.5	44.2							
4555	33.9	37.3	34.2	C	C	38.7	C	33.9	35.6	C	C	C	34.1	31.4	27.9	33.6	32.6			
4556	41.3	48.3	16.6	D	D	47.5	42.9	41.1	C	41.0	C	47.9	45.2	M						
4557	39.9	C	C	42.2	42.4	41.5	39.6	37.5	40.5	39.9	39.9	37.9	38.0	C	M					
4558	33.7	36.2	28.6	35.0	36.5	C	34.2	C	C	34.0	M	29.7	32.5	39.5	31.1	C				
4559	42.9	D	C	43.8	46.8	40.0	44.2	43.2	44.9	C	C	42.9	42.6	39.4	41.3	C				
4560	37.5	S	C	39.7	38.3	37.8	40.7	36.1	C	C	37.5	34.2	34.2	38.6	37.7					
4561	40.5	45.1	39.7	44.2	40.0	C	41.2	35.6	40.4	41.7	42.7	33.9								
4562	37.4	40.4	C	C	C	C	39.5	35.8	34.5	38.2	39.3	39.6	C	C	38.5	32.8	35.5			
4563	44.0	42.2	44.1	47.5	46.5	47.1	37.0	C	43.9	43.1	43.3	C	45.4							
4564	43.1	41.0	43.1	45.2	41.3	46.0	C	45.4	C	C	41.4	C	44.6	41.0	42.1					
4565	NOT PREGNANT																			
4566	42.5	45.4	50.1	41.4	32.6	39.1	C	C	40.2	45.7	44.7	45.4	C	C	C	40.2	C			
4567	32.7	33.0	32.3	33.1	C	33.4	34.4	D	C	31.4	32.5	33.0	33.5	30.7	C	M				
4568	39.8	39.2	42.2	41.0	40.4	41.3	39.2	36.1	41.0	C	37.5	39.7								
4569	39.1	38.4	41.0	C	C	44.8	41.0	33.4	C	C	C	C	C	39.8	40.2	35.2	34.7	42.2		
4570	41.1	43.2	38.8	40.0	43.5	40.7	37.4	C	38.7	C	C	42.0	46.1	40.6	C					
4571	48.6	S	49.7	51.4	47.1	C	53.9	48.1	50.2	C	C	46.6	48.3	44.1	46.9					
4572	31.1	C	29.9	32.0	32.4	29.5	31.5	C	31.1	29.3	31.7	33.2	30.1	S						
4573	40.2	C	38.4	44.9	41.9	41.6	35.7	C	C	C	39.0	43.0	40.7	39.8	36.6	C				
4574	36.5	35.8	38.8	40.0	C	31.9	40.0	34.4	39.0	31.8	C	C	C	39.4	C	33.9				
4575	43.4	49.8	44.4	40.5	C	C	46.0	44.9	38.7	C	C	44.2	43.1	40.5	41.9	C				
4576	40.5	C	41.1	40.1	42.5	38.9	C	C	C	42.3	40.7	39.8	40.0	C	38.1	41.8				

MEAN 39.9
S.D. 4.47
N 25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP I 0 MG/M3 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
1551	71.5	S	83.2	74.8	78.2	69.6	71.0	70.8	66.9	68.5	62.3	70.1								
1552	68.6	74.7	76.0	71.5	79.3	59.5	C	59.7	65.1	62.8	67.0	C	C	C	C	C	70.5			
1553	75.4	C	C	78.6	74.7	79.6	70.3	82.7	C	C	70.4	69.6	73.1	81.5	73.8					
1554	76.3	86.0	78.5	C	80.7	C	C	78.2	82.7	62.3	75.4	74.7	73.8	70.4						
1555	83.9	C	88.6	84.3	92.5	83.9	83.2	C	C	80.1	78.4	79.4	86.2	82.8						
1556	70.0	73.2	74.5	67.2	72.3	71.9	M	72.6	C	70.0	67.0	64.3	67.2	C						
1557	79.3	C	74.1	C	83.7	83.2	85.7	87.7	74.0	90.9	72.4	75.8	65.1							
1558	75.2	74.5	87.0	72.3	75.6	74.4	76.5	C	75.8	71.5	C	69.4	74.9							
1559	74.2	C	77.4	77.0	74.4	C	75.1	78.1	C	C	66.4	73.5	C	78.6	71.6	69.4				
1560	79.8	84.5	86.4	83.4	79.7	78.5	76.9	76.0	77.0	C	80.3	75.8								
1561	79.3	78.9	92.1	85.3	C	C	C	C	C	84.0	79.8	79.7	75.8	71.1	68.1	78.4				
1562	78.8	S	88.8	M	C	87.2	C	86.3	83.1	80.2	76.6	72.8	68.0	C	68.3	76.3				
1563	62.7	69.5	63.3	54.1	62.7	70.6	C	C	59.7	62.9	55.6	C	65.9	63.0						
1564	95.1	S	104.0	102.1	100.5	89.3	84.2	94.3	91.3											
1565	72.8	74.3	73.4	80.6	77.7	C	69.5	C	73.7	63.5	72.3	71.6	71.2	C	C	C				
1566	82.3	S	85.1	91.8	80.9	C	80.6	82.3	C	81.7	84.7	80.0	77.0	79.1						
1567	77.0	S	80.1	79.1	79.2	C	79.1	75.0	C	C	C	C	76.5	76.8	73.5	73.3	77.3			
1568	76.3	79.1	85.5	86.8	80.9	73.6	54.5	76.6	C	C	76.9	74.6	74.5							
1569	78.2	84.3	85.3	C	83.3	81.9	79.3	73.2	C	71.0	78.5	71.7	73.2	C						
1570	75.6	83.6	77.5	C	82.0	77.6	C	79.2	C	71.8	70.2	67.3	72.6	73.8						
1571	72.9	80.3	72.9	76.8	72.7	76.4	C	C	69.8	71.2	73.5	64.8	C	70.5						
1572	83.3	91.8	90.3	81.5	C	C	C	89.5	C	89.1	76.4	78.4	C	75.9	78.2	82.3				
1573	74.4	C	80.8	C	83.8	72.1	C	74.7	76.1	61.7	M	70.6	C	74.7	74.6	74.4				
1574	81.7	82.2	C	86.1	C	87.5	83.9	85.3	75.4	84.4	78.5	C	79.2	74.5						
1575	73.7	C	78.0	63.5	78.8	83.6	61.0	75.5	79.5	72.6	72.6	72.3								
1576	NOT PREGNANT																			

MEAN	76.7
S.D.	6.16
N	25

PUP STATUS CODES: S-STILLBORN C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP II 2000 MG/M3 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
2551	78.0	85.4	86.4	C	85.9	82.3	73.1	80.2	C	C	67.4	73.0	81.0	65.3						
2552	81.0	84.3	C	C	C	86.7	79.3	77.5	C	82.1	83.9	81.7	C	77.8	73.9	C	82.8			
2553	70.5	75.8	72.3	78.8	66.2	71.3	64.5	C	C	62.7	69.9	74.6	C	C	68.9					
2554	77.8	80.4	83.9	83.6	C	78.5	79.4	77.6	79.9	59.1	78.0	C	C	C	77.6					
2555	82.0	S	83.1	87.0	84.9	C	C	83.1	85.4	C	C	C	80.3	76.7	79.6	C	79.6	80.7		
2556	67.6	71.7	69.2	60.1	68.3	69.0	C	C	67.6	66.2	66.3	70.3	67.7							
2557	78.2	C	81.9	84.4	83.0	76.1	81.6	C	C	76.7	73.1	76.3	73.3	75.8	C					
2558	73.2	C	68.5	C	81.5	84.0	72.2	66.5	70.3	77.9	76.5	71.8	C	D	63.0	C				
2559	67.1	58.7	77.9	76.1	58.7	70.3	C	67.6	62.2	63.3	C	73.3	C	C	63.3	C	C	C		
2560	83.0	90.9	88.7	88.2	C	C	81.6	C	78.3	81.9	C	81.8	82.2	81.7	C	74.7	C			
2561	86.1	91.2	C	84.6	D	94.0	C	91.9	C	83.7	91.0	88.1	78.7	78.5	79.7					
2562	62.2	C	67.6	66.5	71.6	C	38.1	63.7	60.8	58.0	65.0	66.4	64.7							
2563	77.2	C	C	80.3	77.5	81.3	83.2	C	79.3	C	69.2	77.3	71.4	73.5	78.8	C				
2564	84.8	81.2	88.6	85.0	95.8	91.1	84.2	C	81.1	80.0	81.2	79.9								
2565	81.3	C	C	C	88.6	80.5	83.9	C	84.1	78.2	87.9	84.0	70.7	76.8	78.7					
2566	NOT PREGNANT																			
2567	89.0	S	96.0	95.3	92.4	C	C	98.3	92.3	87.6	C	82.2	82.4	81.0	82.2					
2568	87.7	81.2	95.4	93.5	86.8	95.1	C	C	91.0	C	83.0	84.3	88.1	78.8						
2569	73.6	81.8	C	C	C	71.1	79.8	71.2	M	68.9	70.0	74.4	69.7	77.0	72.4					
2570	79.3	S	85.1	89.8	79.4	80.8	C	76.2	76.4	76.7	74.1	80.6	73.6							
2571	83.3	S	93.3	80.3	C	85.2	83.9	84.6	88.9	81.6	77.3	74.9	82.8							
2572	85.6	87.8	93.9	93.1	92.2	80.8	80.0	76.9	80.2											
2573	86.7	83.1	90.7	90.9	83.0	95.4	C	C	C	89.4	C	85.8	76.9	90.7	80.6					
2574	69.7	S	C	C	C	74.7	72.0	74.3	75.3	74.5	63.4	71.9	C	67.4	60.6	62.7	C	C		
2575	86.7	D	88.6	83.0	98.4	94.7	C	C	91.3	83.3	87.8	C	C	82.1	82.2	75.5	C			
2576	83.8	91.1	86.3	91.6	84.5	87.9	C	C	76.3	75.4	83.3	79.5	81.8							

MEAN	79.0
S.D.	7.29
N	25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

GASOLINE ETHANOL 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 28

FEMALE#	MEAN	PUP# 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
3551	69.6	66.4	71.6	72.7	72.3	71.1	75.7	68.1	62.3	D	69.6	66.0								
3552	NOT PREGNANT																			
3553	83.1	90.6	85.5	94.1	80.2	85.6	C	76.7	83.5	78.7	C	75.7	C	C	80.1					
3554	70.0	S	67.9	66.3	81.7	72.8	74.9	70.1	59.8	C	C	70.0	71.0	65.6						
3555	88.7	C	95.0	91.2	87.7	84.9	94.2	C	88.8	81.9	86.0	91.4	85.8							
3556	73.7	74.7	C	C	64.1	76.0	75.4	76.0	78.9	74.1	68.5	73.4	M	76.0						
3557	77.5	83.1	C	C	C	C	86.5	80.9	76.7	82.6	71.3	73.3	C	77.1	70.6	72.8				
3558	67.9	71.9	65.6	71.5	74.5	C	67.0	C	65.2	67.8	68.8	C	64.5	62.0						
3559	92.3	C	104.9	85.0	93.4	95.0	97.7	C	C	87.2	90.2	C	91.6	92.1	C	85.9				
3560	80.9	84.7	83.7	82.7	C	C	C	85.2	85.2	C	C	C	74.6	83.9	76.0	76.3	76.3			
3561	75.5	78.4	80.7	82.5	66.8	82.3	73.3	75.0	62.5	81.3	C	71.8	C							
3562	76.8	71.3	77.5	78.4	C	C	C	81.5	C	C	89.2	C	71.9	71.2	68.8	78.0	80.3			
3563	81.1	79.8	87.2	87.4	86.5	87.9	C	C	75.1	78.4	76.3	78.8	73.6							
3564	64.9	69.1	C	67.0	61.2	69.4	C	67.4	C	67.1	55.1	65.5	64.9	62.1						
3565	72.4	73.6	80.6	82.1	70.3	68.4	71.6	69.6	C	69.2	69.5	68.9								
3566	66.3	70.0	64.4	73.6	64.8	68.8	C	C	67.1	65.6	C	C	62.9	D	60.5	64.8				
3567	76.7	82.6	C	84.8	79.0	79.2	77.9	75.8	70.3	71.9	70.4	C	74.6							
3568	68.4	C	69.0	67.9	C	C	C	70.5	71.7	72.9	64.7	C	66.4	64.8	69.8	66.1				
3569	86.1	84.3	85.4	M	88.6	M														
3570	76.4	81.0	77.0	82.0	78.3	82.3	C	C	C	C	68.2	74.6	78.7	69.8	72.0					
3571	74.8	77.0	C	C	82.9	84.6	77.1	67.0	70.8	70.6	C	75.7	73.0	69.4	C	C				
3572	75.2	C	77.7	C	C	82.1	82.9	C	75.1	77.4	C	66.0	C	72.1	63.9	76.8	77.7			
3573	86.4	100.0	94.4	83.7	89.0	97.1	C	78.0	C	C	81.4	C	77.4	85.5	C	77.0				
3574	82.2	88.5	85.7	75.5	C	86.3	91.9	C	C	81.4	75.6	75.9	80.6	80.4						
3575	77.5	75.2	C	76.9	78.7	79.2	80.4	C	72.3	83.1	C	C	70.6	78.0	C	81.1				
3576	74.6	81.2	C	C	83.3	67.6	C	75.9	72.7	71.7	72.4	71.5	75.5	74.1	C					

MEAN	76.7
S.D.	7.10
N	25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX U F1 GENERATION

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

INDIVIDUAL PUP BODY WEIGHTS (GRAMS)

GROUP IV 20000 MG/M3 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
4551	70.7	C	74.2	75.1	67.6	C	75.0	68.9	69.3	C	74.1	65.3	65.2	72.4						
4552	88.4	91.8	C	C	C	85.2	90.7	C	C	95.5	C	C	96.4	92.5	83.6	91.2	71.5	85.7		
4553	69.8	70.8	71.6	72.5	72.4	C	75.9	70.5	66.8	65.9	65.7	65.9								
4554	86.3	83.7	94.5	84.0	88.3	C	95.9	86.9	86.1	80.9	C	86.1	76.7							
4555	70.3	78.2	75.2	C	C	79.5	C	71.0	72.9	C	C	C	67.0	64.5	61.2	70.3	63.6			
4556	74.3	90.6	21.0	D	D	84.2	78.2	73.8	C	77.7	C	85.0	83.5	M						
4557	74.5	C	C	78.0	79.5	81.4	75.0	70.2	76.9	72.8	72.2	69.8	69.6	C	M					
4558	69.2	74.3	53.5	75.3	75.1	C	72.3	C	C	68.3	M	66.2	66.4	77.2	63.2	C				
4559	78.7	D	C	84.5	86.9	77.5	83.5	83.0	76.4	C	C	75.3	73.3	74.2	72.5	C				
4560	73.5	S	C	77.4	76.7	72.2	80.3	74.7	C	C	72.8	67.3	65.9	74.6	73.0					
4561	75.8	85.0	75.7	80.9	79.2	C	77.0	67.2	75.9	77.7	73.8	65.6								
4562	74.0	84.4	C	C	C	C	79.7	75.9	69.9	66.5	73.7	77.3	C	C	74.0	72.5	66.4			
4563	78.2	75.5	81.6	88.5	84.6	80.5	68.9	C	75.3	73.0	75.3	C	78.4							
4564	84.2	81.3	89.7	88.3	81.5	88.4	C	89.5	C	C	84.9	C	84.7	76.4	77.7					
4565	NOT PREGNANT																			
4566	76.4	82.5	88.8	81.6	58.9	70.7	C	C	74.3	76.7	78.5	77.0	C	C	C	75.0	C			
4567	66.9	68.6	64.5	73.6	C	70.4	72.4	D	C	63.2	64.9	64.7	63.8	63.3	C	M				
4568	74.7	73.5	82.7	77.6	74.8	79.8	73.7	65.6	75.4	C	67.2	76.3								
4569	71.9	72.0	78.6	C	C	80.2	72.9	67.0	C	C	C	C	C	73.2	71.3	64.2	65.0	75.1		
4570	74.7	80.5	74.7	73.8	76.7	76.3	67.7	C	66.2	C	C	73.7	81.7	75.9	C					
4571	89.6	S	91.4	96.4	90.4	C	100.5	88.4	94.5	C	C	80.1	88.9	80.1	85.2					
4572	64.6	C	63.6	68.5	69.9	60.8	64.9	C	64.4	57.4	68.0	67.2	61.1	S						
4573	73.9	C	72.8	87.5	77.1	74.9	71.9	C	C	C	70.4	72.7	71.7	71.8	68.0	C				
4574	68.6	68.7	70.9	74.5	C	65.4	72.1	62.9	70.4	62.7	C	C	C	72.2	C	66.5				
4575	77.8	89.5	82.7	74.4	C	C	83.1	82.6	69.0	C	C	78.0	72.6	72.4	73.5	C				
4576	77.8	C	79.0	78.2	80.8	76.2	C	C	C	80.3	75.2	77.6	80.0	C	73.3	77.2				

MEAN	75.4
S.D.	6.37
N	25

PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED M-MISSING

Huntingdon Life Sciences 00-4203

APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1051		NO REMARKABLE OBSERVATIONS
1052		NO REMARKABLE OBSERVATIONS
1053		NO REMARKABLE OBSERVATIONS
1054		NO REMARKABLE OBSERVATIONS
1055	KIDNEY	DISCOLORED FOCI; BILATERAL RED, LESS THAN 0.1 CM IN DIAMETER
1056	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
1057		NO REMARKABLE OBSERVATIONS
1058		NO REMARKABLE OBSERVATIONS
1059		NO REMARKABLE OBSERVATIONS
1060	THYMUS	DISCOLORED FOCUS/FOCI; SLIGHT; BILATERAL RED TISSUE SAVED
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING NOT CONFIRMED
1061		NO REMARKABLE OBSERVATIONS
1062		NO REMARKABLE OBSERVATIONS
1063		NO REMARKABLE OBSERVATIONS

Huntingdon Life Sciences 00-4203

APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1064	GONADS	EPIDIDYMIS(IDES) - ABSCESS; MODERATE; RIGHT
		TAIL - THICK, YELLOW MATERIAL
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
1065		NO REMARKABLE OBSERVATIONS
1066		NO REMARKABLE OBSERVATIONS
1067	KIDNEY	CYSTIC KIDNEY; SLIGHT; RIGHT
		CORTEX, CLEAR, LESS THAN 0.1 CM IN DIAMETER
1068		NO REMARKABLE OBSERVATIONS
1069		NO REMARKABLE OBSERVATIONS
1070	LUNGS	DISCOLORED FOCI; SLIGHT
		LEFT AND DIAPHRAGMATIC LOBES - TAN, 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
1071	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT
1072	KIDNEY	CYSTIC KIDNEY; SLIGHT; LEFT
		CORTEX - 0.1 CM IN DIAMETER, CLEAR
	GONADS	EPIDIDYMIS(IDES) - ABSCESS; EXTREME; LEFT
		TAIL - THICK, YELLOW MATERIAL
	EXTERNAL EXAM	BLACK/BROWN STAIN ON SNOUT
		EXTERNAL FINDING NOT CONFIRMED
1073		NO REMARKABLE OBSERVATIONS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1074	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
1075		NO REMARKABLE OBSERVATIONS
1076		NO REMARKABLE OBSERVATIONS

Huntingdon Life Sciences 00-4203

APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2051	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING NOT CONFIRMED
2052		NO REMARKABLE OBSERVATIONS
2053	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
2054	THYMUS	DISCOLORED FOCUS/FOCI; SLIGHT; RIGHT RED, 0.2 CM IN DIAMETER TISSUE SAVED
	LIVER	HERNIATED; SLIGHT MEDIAN LOBE
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ALOPECIA - GENERAL EXTERNAL FINDING CONFIRMED
2055	THYMUS	DISCOLORED AREA(S); MODERATE; RIGHT RED TISSUE SAVED
2056	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, 0.1-0.2 CM IN DIAMETER, TAN
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
2057		NO REMARKABLE OBSERVATIONS
2058	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2059	EXTERNAL EXAM	BLACK/BROWN STAIN ON SNOUT EXTERNAL FINDING NOT CONFIRMED
2060		NO REMARKABLE OBSERVATIONS
2061	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, 0.1 CM IN DIAMETER
2062	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING NOT CONFIRMED
2063		NO REMARKABLE OBSERVATIONS
2064		NO REMARKABLE OBSERVATIONS
2065		NO REMARKABLE OBSERVATIONS
2066	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, 0.1 CM IN DIAMETER
2067		NO REMARKABLE OBSERVATIONS
2068	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
2069		NO REMARKABLE OBSERVATIONS
2070		NO REMARKABLE OBSERVATIONS
2071		NO REMARKABLE OBSERVATIONS
2072		NO REMARKABLE OBSERVATIONS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2073	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
2074	THYMUS	DISCOLORED AREA(S); MODERATE; BILATERAL
		RED, 0.2 CM IN DIAMETER
		TISSUE SAVED
	LUNGS	DISCOLORED FOCI; SLIGHT
		LEFT AND DIAPHRAGMATIC LOBES - TAN, 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
2075	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT
2076	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3051		NO REMARKABLE OBSERVATIONS
3052	GROSS EXAM	FRACTURED BONE(S)
		POSTERIOR NASAL
		APPARENT HEALED
		HEAD SAVED
	EXTERNAL EXAM	INCISORS BROKEN/MISSING
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS MALOCCLUDED
		EXTERNAL FINDING CONFIRMED
3053	EXTERNAL EXAM	INCISORS BROKEN/MISSING
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS MALOCCLUDED
		EXTERNAL FINDING CONFIRMED
3054	KIDNEY	CYSTIC KIDNEY; SLIGHT; LEFT
		CORTEX - 0.1 CM IN DIAMETER, CLEAR
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
3055		NO REMARKABLE OBSERVATIONS
3056	LUNGS	DISCOLORED FOCI; SLIGHT
		DIAPHRAGMATIC LOBE, TAN, LESS THAN 0.1 CM IN DIAMETER
3057		NO REMARKABLE OBSERVATIONS
3058	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING NOT CONFIRMED
3059	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3060		NO REMARKABLE OBSERVATIONS
3061	THYMUS	DISCOLORED FOCUS/FOCI; SLIGHT; LEFT RED, 0.2-0.5 CM IN DIAMETER TISSUE SAVED
	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
3062	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
3063		NO REMARKABLE OBSERVATIONS
3064		NO REMARKABLE OBSERVATIONS
3065	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, TAN, LESS THAN 0.1 CM IN DIAMETER
3066	KIDNEY	CYSTIC KIDNEY; SLIGHT; RIGHT CORTEX, CLEAR, LESS THAN 0.1 CM IN DIAMETER
3067	GONADS	SMALL TESTE(S); MODERATE; RIGHT
	GONADS	SMALL EPIDIDYMIS(IDES); MODERATE; RIGHT
3068		NO REMARKABLE OBSERVATIONS
3069	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
3070	KIDNEY	CYSTIC KIDNEY; MODERATE; LEFT CORTEX - 0.1 - 0.4 CM IN DIAMETER, CLEAR

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3071	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
3072		NO REMARKABLE OBSERVATIONS
3073		NO REMARKABLE OBSERVATIONS
3074		NO REMARKABLE OBSERVATIONS
3075	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
3076		NO REMARKABLE OBSERVATIONS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4051		NO REMARKABLE OBSERVATIONS
4052		NO REMARKABLE OBSERVATIONS
4053		NO REMARKABLE OBSERVATIONS
4054		NO REMARKABLE OBSERVATIONS
4055	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ALOPECIA - GENERAL
		EXTERNAL FINDING CONFIRMED
4056	EXTERNAL EXAM	INCISORS BROKEN/MISSING
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS MALOCCLUDED
		EXTERNAL FINDING CONFIRMED
4057		NO REMARKABLE OBSERVATIONS
4058		NO REMARKABLE OBSERVATIONS
4059		NO REMARKABLE OBSERVATIONS
4060		NO REMARKABLE OBSERVATIONS
4061		NO REMARKABLE OBSERVATIONS
4062	THYMUS	DISCOLORED FOCUS/FOCI; SLIGHT; BILATERAL
		RED, 0.1 CM IN DIAMETER
		TISSUE SAVED
	LUNGS	DISCOLORED FOCI; SLIGHT
		ALL LOBES - TAN, 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4063		NO REMARKABLE OBSERVATIONS
4064		NO REMARKABLE OBSERVATIONS
4065		NO REMARKABLE OBSERVATIONS
4066	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
4067	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - 0.1 CM IN DIAMETER, TAN
4068		NO REMARKABLE OBSERVATIONS
4069		NO REMARKABLE OBSERVATIONS
4070	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
4071	LUNGS	DISCOLORED FOCI; SLIGHT LEFT AND DIAPHRAGMATIC LOBES - TAN, 0.1 CM IN DIAMETER
4072	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
4073		NO REMARKABLE OBSERVATIONS
4074		NO REMARKABLE OBSERVATIONS
4075	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED

Huntingdon Life Sciences 00-4203

APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

MALES GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4076	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED

Huntingdon Life Sciences 00-4203

APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1551	KIDNEY	IRREGULAR SURFACE; RIGHT CORTEX - DEPRESSION, 0.3 CM IN DIAMETER
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1552	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1553	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE PROESTRUS
1554	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1555	EXTERNAL EXAM	ESTROUS STAGE ESTRUS
1556	LUNGS	DISCOLORED FOCI; SLIGHT TAN, LEFT LOBE, 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1557	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1558	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1559	EXTERNAL EXAM	ESTROUS STAGE ESTRUS
1560	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1561	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1562	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1563	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1564	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE PROESTRUS
1565	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
1566	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE PROESTRUS
1567	EXTERNAL EXAM	ESTROUS STAGE PROESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#	ORGAN	OBSERVATION
1568	EXTERNAL EXAM	INCISORS MALOCCLUDED
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
1569	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
1570	LUNGS	DISCOLORED FOCI; SLIGHT
		ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
1571	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
1572	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
1573	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
1574	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
1575	EXTERNAL EXAM	ESTROUS STAGE
		ESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP I 0 MG/M3

ANIMAL#		ORGAN	OBSERVATION
1576	NP	EXTERNAL EXAM	ESTROUS STAGE ESTRUS
		EXTERNAL EXAM	SALEWSKI'S TEST NEGATIVE

NP=NOT PREGNANT

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2551	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2552	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2553	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2554	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2555	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2556	EXTERNAL EXAM	ESTROUS STAGE ESTRUS
2557	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2558	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2559	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2560	EXTERNAL EXAM	ESTROUS STAGE PROESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP II 2000 MG/M3

ANIMAL#		ORGAN	OBSERVATION
2561		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2562		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2563		EXTERNAL EXAM	ALOPECIA - GENERAL EXTERNAL FINDING CONFIRMED
		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2564		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2565		LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES, LESS THAN 0.1 CM IN DIAMETER, TAN
		EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2566	NP	EXTERNAL EXAM	ESTROUS STAGE ESTRUS
		EXTERNAL EXAM	SALEWSKI'S TEST NEGATIVE
2567		EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2568		EXTERNAL EXAM	SWOLLEN FOREPAW; SLIGHT LEFT,EXTERNAL FINDING CONFIRMED TISSUE SAVED

NP=NOT PREGNANT

Huntingdon Life Sciences 00-4203

APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP II 2000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
2568 (CONTINUED)		
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2569	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2570	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE METESTRUS
2571	EXTERNAL EXAM	ESTROUS STAGE ESTRUS
2572	LIVER	ADHESION(S); SLIGHT ACCESSORY LOBE TO BODY WALL TISSUE SAVED
	KIDNEY	AGENESIS; RIGHT LEFT KIDNEY ENLARGED - SLIGHT
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2573	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2574	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2575	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
2576	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP III 10000 MG/M3

ANIMAL#		ORGAN	OBSERVATION
3551		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3552	NP	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
		EXTERNAL EXAM	SALEWSKI'S TEST NEGATIVE
3553		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3554		LUNGS	DISCOLORED FOCI; MODERATE ALL LOBES - TAN, 0.1 CM IN DIAMETER
		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3555		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3556		LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, 0.1 CM IN DIAMETER
		EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3557		EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
		EXTERNAL EXAM	MASS EXTERNAL FINDING CONFIRMED SKIN, LEFT UPPER DORSAL, 3 CM IN DIAMETER, TAN, FIRM TISSUE SAVED
		EXTERNAL EXAM	ESTROUS STAGE DIESTRUS

NP=NOT PREGNANT

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3558	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3559	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3560	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3561	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES, LESS THAN 0.1 CM IN DIAMETER, TAN
	EXTERNAL EXAM	INCISORS BROKEN/MISSING EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	INCISORS MALOCCLUDED EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3562	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3563	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3564	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3565	EXTERNAL EXAM	ESTROUS STAGE PROESTRUS
3566	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3567	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3568	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING NOT CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3569	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3570	LUNGS	DISCOLORED FOCI; SLIGHT ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3571	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3572	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3573	LIVER	DISCOLORED; EXTREME ACCESSORY LOBE, TAN
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
3574	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP III 10000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
3575	LUNGS	DISCOLORED FOCI; SLIGHT
		DIAPHRAGMATIC LOBE - TAN, LESS THAN 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
3576	LUNGS	DISCOLORED FOCI; EXTREME
		ALL LOBES - TAN, 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ESTROUS STAGE
		ESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4551	LUNGS	DISCOLORED FOCI; SLIGHT
		ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
4552	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
4553	LIVER	ADHESION(S); MODERATE
		ACCESSORY LOBE TO RIGHT KIDNEY
		TISSUE SAVED
	EXTERNAL EXAM	ESTROUS STAGE
		PROESTRUS
4554	EXTERNAL EXAM	ESTROUS STAGE
		ESTRUS
4555	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
	LUNGS	DISCOLORED FOCI
		LEFT LOBE, 0.1 CM IN DIAMETER, RED
4556	LUNGS	DISCOLORED FOCI; SLIGHT
		ALL LOBES - TAN, LESS THAN 0.1 CM IN DIAMETER
	EXTERNAL EXAM	ESTROUS STAGE
		PROESTRUS
4557	KIDNEY	ADHESION; MODERATE; RIGHT
		TO ACCESSORY LOBE OF LIVER
	ADRENALS	SMALL; MODERATE; RIGHT
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP IV 20000 MG/M3

ANIMAL#		ORGAN	OBSERVATION
4558		KIDNEY	DILATED RENAL PELVIS; MODERATE; BILATERAL
		EXTERNAL EXAM	ESTROUS STAGE
			DIESTRUS
4559		EXTERNAL EXAM	ESTROUS STAGE
			ESTRUS
4560		EXTERNAL EXAM	ESTROUS STAGE
			DIESTRUS
4561		EXTERNAL EXAM	ESTROUS STAGE
			PROESTRUS
4562		EXTERNAL EXAM	ESTROUS STAGE
			PROESTRUS
4563		LUNGS	DISCOLORED FOCI; SLIGHT
			ALL LOBES - LESS THAN 0.1 CM IN DIAMETER, TAN
		EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
			EXTERNAL FINDING CONFIRMED
		EXTERNAL EXAM	ESTROUS STAGE
			DIESTRUS
4564		EXTERNAL EXAM	ESTROUS STAGE
			DIESTRUS
4565	NP	EXTERNAL EXAM	INCISORS BROKEN/MISSING
			EXTERNAL FINDING CONFIRMED
		EXTERNAL EXAM	INCISORS MALOCCLUDED
			EXTERNAL FINDING CONFIRMED
		UTERUS	SALEWSKI'S TEST
			NEGATIVE
		EXTERNAL EXAM	ESTROUS STAGE
			ESTRUS

NP=NOT PREGNANT

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4566	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ALOPECIA - GENERAL
		EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
4567	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
4568	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
4569	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
4570	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
4571	EXTERNAL EXAM	ESTROUS STAGE
		ESTRUS
4572	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
4573	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS
4574	KIDNEY	DILATED RENAL PELVIS; EXTREME; RIGHT
	EXTERNAL EXAM	ESTROUS STAGE
		DIESTRUS

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APPENDIX V P0 GENERATION

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

INDIVIDUAL PARENTAL NECROPSY OBSERVATIONS

FEMALES GROUP IV 20000 MG/M3

ANIMAL#	ORGAN	OBSERVATION
4575	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS
4576	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ALOPECIA - GENERAL EXTERNAL FINDING CONFIRMED
	EXTERNAL EXAM	ESTROUS STAGE DIESTRUS

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH
	2M	K	28	KIDNEY	DILATED RENAL PELVIS; SLIGHT; RIGHT TISSUE SAVED
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
1552	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
1553	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		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

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
1554	2M	K	28	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT TISSUE SAVED
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
1555	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28	KIDNEY	M CYSTIC KIDNEY; MODERATE; LEFT CORTEX - 0.1 CM IN DIAMETER, CLEAR TISSUE SAVED
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; LEFT CORTEX - 0.1 CM IN DIAMETER, CLEAR TISSUE SAVED
	13F	K	28		NO REMARKABLE OBSERVATIONS
1556	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		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
	13F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
1557	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; RIGHT CORTEX - CLEAR, 0.1 CM IN DIAMETER TISSUE SAVED
	3M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
1558	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
1559	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT TISSUE SAVED
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
1560	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4F	K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; LEFT CORTEX, CLEAR, 0.1 CM IN DIAMETER, TISSUE SAVED
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
1561	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10M	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
1562	1U	S		GROSS EXAM	INTERNAL SEX UNDETERMINED
				GROSS EXAM	CANNIBALIZED
				LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	MILK UNDETERMINED
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28	EXTERNAL EXAM	LEFT HINDPAW MISSING EXTERNAL FINDING CONFIRMED HINDLIMB SAVED

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
1562 (CONTINUED)					
	15F	K	28		NO REMARKABLE OBSERVATIONS
1563	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
1564	1F	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH
				ABDOMINAL CAVITY	FLUID FILLED
					CLEAR LIQUID
				SKIN	DISCOLORED AREA(S)
					RED, CERVICAL, LOWER DORSAL, 0.5 CM IN DIAMETER.
				SKIN	V EDEMATOUS
					GENERALIZED
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
1565	1M	K	28	KIDNEY	DILATED RENAL PELVIS; EXTREME; RIGHT
					TISSUE SAVED
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
1565 (CONTINUED)					
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
1566	1M	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
1567	1M	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	C	4		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
1568	1M	K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; LEFT CORTEX - CLEAR, 0.1 CM IN DIAMETER TISSUE SAVED

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
1568 (CONTINUED)					
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28	KIDNEY	DILATED RENAL PELVIS; EXTREME; RIGHT TISSUE SAVED
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
1569	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; RIGHT CORTEX - CLEAR, 0.1 CM IN DIAMETER TISSUE SAVED
	3M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
1570	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT TISSUE SAVED
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	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

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE ETHANOL 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
1571	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28	GONADS	M UNDESCENDED TESTE(S); RIGHT TESTE AND SCROTUM SAVED
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
1572	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
1573	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP I 0 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
1574	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		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
1575	1M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	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

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2551	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
2552	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	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
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
2553	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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GASOLINE ETHANOL 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
2554	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		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	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
2555	1M	S		GROSS EXAM	AUTOLYSIS POSTMORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY.
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
	17F	K	28		NO REMARKABLE OBSERVATIONS
2556	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
2557	1M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
2558	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
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	D	3	GROSS EXAM	AUTOLYSIS POSTMORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	15F	C	4		NO REMARKABLE OBSERVATIONS
2559	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
2559 (CONTINUED)					
	16F	C	4		NO REMARKABLE OBSERVATIONS
	17F	C	4		NO REMARKABLE OBSERVATIONS
2560	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4F	C	4		NO REMARKABLE OBSERVATIONS
	5F	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
2561	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	4M	D	4	STOMACH	MILK IN STOMACH
				KIDNEY	DILATED RENAL PELVIS; EXTREME; BILATERAL
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
2562	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2562 (CONTINUED)					
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
2563	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; BILATERAL CORTEX - 0.1 CM IN DIAMETER, CLEAR TISSUE SAVED
	7M	C	4		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
2564	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
2565	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2565 (CONTINUED)					
	14F	K	28		NO REMARKABLE OBSERVATIONS
2567	1M	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		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
2568	1M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
2569	1M	K	28	KIDNEY	DILATED RENAL PELVIS; EXTREME; RIGHT TISSUE SAVED
	2F	C	4		NO REMARKABLE OBSERVATIONS
	3F	C	4		NO REMARKABLE OBSERVATIONS
	4F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		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

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP NECROPSY OBSERVATIONS

GROUP II 2000 MG/M3

FEMALE#	PUP#	STATUS	DAY	ORGAN	OBSERVATION
2570	1M	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
2571	1F	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH
				SKIN	BLOOD CLOT SUBCUTANEOUS, CERVICAL AREA
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
2572	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	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
2573	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
2573 (CONTINUED)					
	8F	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
2574	1F	S		GROSS EXAM	AUTOLYSIS POSTMORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	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	K	28	KIDNEY	M CYSTIC KIDNEY; SLIGHT; RIGHT CORTEX - CLEAR, 0.1 CM IN DIAMETER TISSUE SAVED
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
	17F	C	4		NO REMARKABLE OBSERVATIONS
2575	1F	D	0	LUNGS	LUNG FLOATATION TEST - FOUND DEAD
				STOMACH	NO MILK IN STOMACH
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	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

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
2575 (CONTINUED)					
	14F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS
2576	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT TISSUE SAVED
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	D	3	GROSS EXAM	AUTOLYSIS POSTMORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
3553	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
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
3554	1F	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH
	2M	K	28		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
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT TISSUE SAVED

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: S-STILLBORN D-DIED C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
3555	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28	KIDNEY	DILATED RENAL PELVIS; EXTREME; RIGHT TISSUE SAVED
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
3556	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
	8F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
3557	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
3558	1M	K	28	THYMUS	DISCOLORED; SLIGHT; LEFT TISSUE SAVED
	2F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
3558 (CONTINUED)					
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	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
3559	1M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
3560	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
3561	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28	LIVER	DIAPHRAGMATIC HERNIA PART OF MEDIAN LOBE PERTRUDES THROUGH DIAPHRAGM TISSUE SAVED
	12F	C	4		NO REMARKABLE OBSERVATIONS
3562	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
3563	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	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: C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
3564	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
3565	1M	K	28		NO REMARKABLE OBSERVATIONS
	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
3566	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	D	4	STOMACH	MILK IN STOMACH
	14F	K	28		NO REMARKABLE OBSERVATIONS
3567	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
3567 (CONTINUED)					
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
3568	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
3569	1M	K	28		NO REMARKABLE OBSERVATIONS
	2F	K	28		NO REMARKABLE OBSERVATIONS
	4F	K	28		NO REMARKABLE OBSERVATIONS
3570	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
3571	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	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
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
3572	1M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	9M	K	28	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28	EXTERNAL EXAM	ALOPECIA - EXTREMITIES/SNOUT EXTERNAL FINDING CONFIRMED
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
3573	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	K	28		NO REMARKABLE OBSERVATIONS
	6F	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
3573 (CONTINUED)					
	9F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
3574	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
3575	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
3576	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		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

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
3576 (CONTINUED)					
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		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

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
4551	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
4552	2M	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
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11M	C	4		NO REMARKABLE OBSERVATIONS
	13M	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
	17F	K	28		NO REMARKABLE OBSERVATIONS
4553	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
4554	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
4555	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8M	K	28		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS
4556	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	D	15	STOMACH	MILK IN STOMACH
				ABDOMINAL CAVITY	DIAPHRAGMATIC HERNIA
					MEDIAN AND LEFT LODE OF LIVER PROTRUDE THROUGH THE DIAPHRAGM
					CARDIAC LOBE OF LUNGS ADHERED TO DIAPHRAGM
	4M	D	6	GROSS EXAM	AUTOLYSIS
					POSTMORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
4556 (CONTINUED)					
	12F	K	28		NO REMARKABLE OBSERVATIONS
4557	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
4558	1M	K	28		NO REMARKABLE OBSERVATIONS
	4M	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
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
4559	1F	D	0	LUNGS	LUNG FLOATATION TEST - FOUND DEAD
				STOMACH	NO MILK IN STOMACH
	2M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

Huntingdon Life Sciences 00-4203

APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
4559 (CONTINUED)					
	15F	C	4		NO REMARKABLE OBSERVATIONS
4560	1M	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH
	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	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
4561	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5F	C	4		NO REMARKABLE OBSERVATIONS
	7F	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
4562	2M	C	4		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	9M	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
4563	2M	K	28	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT TISSUE SAVED
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5F	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
4564	2M	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
	11M	C	4		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
4566	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
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
	15F	K	28		NO REMARKABLE OBSERVATIONS
	16F	C	4		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
4567	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	D	3	STOMACH	MILK IN STOMACH
				KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
4568	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	8F	K	28		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
4569	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	C	4		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	17F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: D-DIED C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
4570	1M	K	28		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4F	K	28		NO REMARKABLE OBSERVATIONS
	5F	K	28		NO REMARKABLE OBSERVATIONS
	6F	K	28		NO REMARKABLE OBSERVATIONS
	7F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
4571	1F	S		GROSS EXAM	AUTOLYSIS POSTMORTEM CHANGES OBVIOUS AT THE TIME OF NECROPSY.
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	9M	C	4		NO REMARKABLE OBSERVATIONS
	10M	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	K	28		NO REMARKABLE OBSERVATIONS
4572	1M	C	4		NO REMARKABLE OBSERVATIONS
	4M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28	KIDNEY	DILATED RENAL PELVIS; MODERATE; RIGHT TISSUE SAVED
	7M	C	4		NO REMARKABLE OBSERVATIONS
	9F	K	28		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13M	S		LUNGS	LUNG FLOATATION TEST - STILLBORN
				STOMACH	NO MILK IN STOMACH

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: S-STILLBORN C-CULLED K-SCHEDULED SACRIFICE

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
4573	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8F	C	4		NO REMARKABLE OBSERVATIONS
	9F	C	4		NO REMARKABLE OBSERVATIONS
	10F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS
	15F	C	4		NO REMARKABLE OBSERVATIONS
4574	1M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		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
	10F	C	4		NO REMARKABLE OBSERVATIONS
	11F	C	4		NO REMARKABLE OBSERVATIONS
	12F	C	4		NO REMARKABLE OBSERVATIONS
	14F	C	4		NO REMARKABLE OBSERVATIONS
4575	3M	K	28		NO REMARKABLE OBSERVATIONS
	4M	C	4		NO REMARKABLE OBSERVATIONS
	5M	C	4		NO REMARKABLE OBSERVATIONS
	6M	K	28		NO REMARKABLE OBSERVATIONS
	7M	K	28		NO REMARKABLE OBSERVATIONS
	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

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APPENDIX W F1 GENERATION

GASOLINE ETHANOL 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
4575 (CONTINUED)					
	15F	C	4		NO REMARKABLE OBSERVATIONS
4576	1M	C	4		NO REMARKABLE OBSERVATIONS
	2M	K	28		NO REMARKABLE OBSERVATIONS
	3M	K	28		NO REMARKABLE OBSERVATIONS
	5M	K	28		NO REMARKABLE OBSERVATIONS
	6M	C	4		NO REMARKABLE OBSERVATIONS
	7M	C	4		NO REMARKABLE OBSERVATIONS
	8M	C	4		NO REMARKABLE OBSERVATIONS
	11F	K	28		NO REMARKABLE OBSERVATIONS
	12F	K	28		NO REMARKABLE OBSERVATIONS
	13F	C	4		NO REMARKABLE OBSERVATIONS
	14F	K	28		NO REMARKABLE OBSERVATIONS

SEX CODES: M-Male, F=Female, U=Undetermined
PUP STATUS CODES: C-CULLED K-SCHEDULED SACRIFICE

	Individual Parental Organ Weights Preface	Appendix X

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P_0 Generation Absolute Organ Weights and % Organ to Body Weight Ratios and % Organ to Brain Weight Ratios 474

Key to Abbreviations:

g	=	Grams
FBW	=	Final Body Weight
SEM. VES & CO.GL.	=	Seminal Vesicles and Coagulating Glands

Corresponding exposure levels for each group were as follows:

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

Note:

In the event that one from a pair of organs that were to be weighed together was missing or weighed incorrectly, the value was not presented in the following appendix.

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APPENDIX X P0 GENERATION

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

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP I 0 MG/M3

Animal Number	FINAL BODY WEIGHT g	EPIDIDYMIS LEFT Weight g	%FBW	%Brain	EPIDIDYMIS RIGHT Weight g	%FBW	%Brain	EPIDIDYMIDES Weight g	%FBW	%Brain	PROSTATE Weight g	%FBW	%Brain
1051	584	0.7998	0.0014	0.3542	0.7817	0.0013	0.3461	1.5733	0.0027	0.6967	1.0133	0.0017	0.4487
1052	564	0.7405	0.0013	0.3371	0.7026	0.0012	0.3199	1.4107	0.0025	0.6422	1.3788	0.0024	0.6277
1053	571	0.6355	0.0011	0.2847	0.6267	0.0011	0.2807	1.2673	0.0022	0.5677	1.2390	0.0022	0.5550
1054	570	0.7208	0.0013	0.3342	0.6579	0.0012	0.3050	1.3584	0.0024	0.6298	1.0598	0.0019	0.4914
1055	639	0.5852	0.0009	0.2638	0.6431	0.0010	0.2899	1.2384	0.0019	0.5582	0.7579	0.0012	0.3416
1056	547	0.7467	0.0014	0.3188	0.7782	0.0014	0.3323	1.5163	0.0028	0.6474	1.4502	0.0026	0.6192
1057	564	0.7194	0.0013	0.3170	0.7899	0.0014	0.3480	1.5016	0.0027	0.6616	0.9908	0.0018	0.4366
1058	514	0.7321	0.0014	0.3135	0.6928	0.0013	0.2966	1.4173	0.0028	0.6069	0.9042	0.0018	0.3872
1059	500	0.6707	0.0013	0.3106	0.6171	0.0012	0.2858	1.2570	0.0025	0.5821	1.1578	0.0023	0.5362
1060	543	0.7576	0.0014	0.3146	0.7629	0.0014	0.3168	1.4897	0.0027	0.6185	1.3726	0.0025	0.5699
1061	596	0.7913	0.0013	0.3305	0.8472	0.0014	0.3538	1.6188	0.0027	0.6760	0.9273	0.0016	0.3873
1062	543	0.9834	0.0018	0.4111	0.8023	0.0015	0.3354	1.6932	0.0031	0.7078	1.1342	0.0021	0.4741
1063	525	0.8289	0.0016	0.3576	0.8167	0.0016	0.3523	1.5750	0.0030	0.6795	1.3744	0.0026	0.5930
1064	525	0.6976	0.0013	0.3017	0.9814	0.0019	0.4244	1.6404	0.0031	0.7094	1.2538	0.0024	0.5422
1065	578	0.7069	0.0012	0.2962	0.6730	0.0012	0.2820	1.3252	0.0023	0.5553	1.4000	0.0024	0.5867
1066	592	0.7805	0.0013	0.3393	0.8069	0.0014	0.3508	1.5273	0.0026	0.6639	1.2723	0.0021	0.5531
1067	566	0.6911	0.0012	0.2991	0.7047	0.0012	0.3050	1.3585	0.0024	0.5880	1.1848	0.0021	0.5128
1068	618	0.8429	0.0014	0.3706	0.9288	0.0015	0.4083	1.6500	0.0027	0.7254	1.2630	0.0020	0.5552
1069	561	0.6481	0.0012	0.2811	0.6934	0.0012	0.3008	1.3448	0.0024	0.5833	1.2165	0.0022	0.5277
1070	580	0.8408	0.0015	0.3466	0.8045	0.0014	0.3317	1.5872	0.0027	0.6543	1.0402	0.0018	0.4288
1071	614	0.6822	0.0011	0.3175	0.5946	0.0010	0.2767	1.2320	0.0020	0.5733	1.0620	0.0017	0.4942
1072	568	0.9049	0.0016	0.3787	0.6779	0.0012	0.2837	1.5490	0.0027	0.6482	1.1601	0.0020	0.4854
1073	480	0.7613	0.0016	0.3450	0.7474	0.0016	0.3387	1.4976	0.0031	0.6788	1.3120	0.0027	0.5946
1074	611	0.7218	0.0012	0.3002	0.7291	0.0012	0.3032	1.2774	0.0021	0.5313	1.1785	0.0019	0.4901
1075	586	0.8209	0.0014	0.3399	0.8042	0.0014	0.3330	1.5682	0.0027	0.6494	1.4077	0.0024	0.5829
1076	572	0.7359	0.0013	0.3483	0.7089	0.0012	0.3355	1.3939	0.0024	0.6597	1.3798	0.0024	0.6531

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

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

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP II 2000 MG/M3

Animal Number	FINAL BODY WEIGHT g	EPIDIDYMIS LEFT Weight g	%FBW	%Brain	EPIDIDYMIS RIGHT Weight g	%FBW	%Brain	EPIDIDYMIDES Weight g	%FBW	%Brain	PROSTATE Weight g	%FBW	%Brain
2051	519	0.8319	0.0016	0.3610	0.7740	0.0015	0.3359	1.5946	0.0031	0.6920	1.0483	0.0020	0.4549
2052	582	0.6992	0.0012	0.3067	0.6791	0.0012	0.2979	1.3612	0.0023	0.5971	1.2033	0.0021	0.5278
2053	585	0.7254	0.0012	0.3258	0.6889	0.0012	0.3095	1.4062	0.0024	0.6317	1.5585	0.0027	0.7001
2054	559	0.6716	0.0012	0.3178	0.6808	0.0012	0.3221	1.3403	0.0024	0.6342	0.9529	0.0017	0.4509
2055	569	0.7303	0.0013	0.3360	0.6712	0.0012	0.3088	1.3947	0.0025	0.6417	0.9664	0.0017	0.4446
2056	709	0.8323	0.0012	0.3397	0.7544	0.0011	0.3079	1.5759	0.0022	0.6433	1.2733	0.0018	0.5197
2057	602	0.7669	0.0013	0.3572	0.7820	0.0013	0.3643	1.5207	0.0025	0.7084	1.0373	0.0017	0.4832
2058	540	0.7497	0.0014	0.3266	0.7431	0.0014	0.3237	1.4606	0.0027	0.6363	2.0383	0.0038	0.8880
2059	462	0.6972	0.0015	0.2881	0.6915	0.0015	0.2857	1.3512	0.0029	0.5583	1.2429	0.0027	0.5136
2060	480	0.7136	0.0015	0.3451	0.7504	0.0016	0.3628	1.4481	0.0030	0.7002	1.2870	0.0027	0.6223
2061	504	0.7550	0.0015	0.3227	0.7331	0.0015	0.3134	1.4676	0.0029	0.6273	1.1539	0.0023	0.4932
2062	589	0.6940	0.0012	0.2965	0.7159	0.0012	0.3058	1.4085	0.0024	0.6017	1.5269	0.0026	0.6523
2063	603	0.7954	0.0013	0.3570	0.8789	0.0015	0.3945	1.6104	0.0027	0.7228	1.6424	0.0027	0.7372
2064	500	0.7767	0.0016	0.3214	0.8455	0.0017	0.3499	1.4843	0.0030	0.6142	1.6019	0.0032	0.6629
2065	523	0.6906	0.0013	0.3038	0.7421	0.0014	0.3264	1.3709	0.0026	0.6030	1.6462	0.0031	0.7241
2066	566	0.7745	0.0014	0.3313	0.7916	0.0014	0.3387	1.5376	0.0027	0.6578	1.2083	0.0021	0.5169
2067	616	0.8948	0.0015	0.3444	0.8958	0.0015	0.3448	1.7082	0.0028	0.6575	1.8318	0.0030	0.7051
2068	537	0.7110	0.0013	0.2835	0.6876	0.0013	0.2742	1.3355	0.0025	0.5325	1.8067	0.0034	0.7203
2069	533	0.7076	0.0013	0.2978	0.6857	0.0013	0.2886	1.3015	0.0024	0.5478	0.9475	0.0018	0.3988
2070	549	0.7140	0.0013	0.2985	0.8050	0.0015	0.3366	1.4894	0.0027	0.6227	1.8308	0.0033	0.7654
2071	561	0.7679	0.0014	0.3177	0.7296	0.0013	0.3019	1.3859	0.0025	0.5735	1.3124	0.0023	0.5431
2072	496	0.7192	0.0015	0.3061	0.7115	0.0014	0.3028	1.3090	0.0026	0.5571	1.5148	0.0031	0.6447
2073	563	0.6390	0.0011	0.2776	0.5847	0.0010	0.2540	1.2101	0.0021	0.5258	1.2936	0.0023	0.5620
2074	581	0.8988	0.0015	0.3822	0.8998	0.0015	0.3826	1.7199	0.0030	0.7314	1.6328	0.0028	0.6943
2075	561	0.9968	0.0018	0.4132	0.9187	0.0016	0.3809	1.8288	0.0033	0.7581	1.2112	0.0022	0.5021
2076	567	0.7981	0.0014	0.3711	0.7744	0.0014	0.3601	1.5225	0.0027	0.7079	1.6021	0.0028	0.7450

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

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

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP III 10000 MG/M3

Animal Number	FINAL BODY WEIGHT g	EPIDIDYMIS LEFT Weight g	%FBW	%Brain	EPIDIDYMIS RIGHT Weight g	%FBW	%Brain	EPIDIDYMIDES Weight g	%FBW	%Brain	PROSTATE Weight g	%FBW	%Brain
3051	526	0.6028	0.0011	0.2766	0.5919	0.0011	0.2716	1.1888	0.0023	0.5455	1.1871	0.0023	0.5447
3052	410	0.7129	0.0017	0.3348	0.6434	0.0016	0.3021	1.3558	0.0033	0.6367	0.8662	0.0021	0.4068
3053	475	0.6352	0.0013	0.3009	0.6741	0.0014	0.3194	1.3030	0.0027	0.6173	0.9551	0.0020	0.4525
3054	575	0.6975	0.0012	0.3234	0.7754	0.0013	0.3595	1.4534	0.0025	0.6738	1.0057	0.0017	0.4663
3055	610	0.7394	0.0012	0.3081	0.7329	0.0012	0.3054	1.4649	0.0024	0.6105	1.3113	0.0022	0.5465
3056	554	0.7710	0.0014	0.3393	0.7540	0.0014	0.3318	1.5169	0.0027	0.6676	1.2120	0.0022	0.5334
3057	571	0.7420	0.0013	0.3471	0.7002	0.0012	0.3276	1.4262	0.0025	0.6672	1.3536	0.0024	0.6333
3058	495	0.8136	0.0016	0.3674	0.7906	0.0016	0.3570	1.5685	0.0032	0.7082	1.2344	0.0025	0.5574
3059	498	0.6920	0.0014	0.3012	0.6618	0.0013	0.2880	1.2612	0.0025	0.5489	1.3096	0.0026	0.5700
3060	606	0.7166	0.0012	0.3018	0.7086	0.0012	0.2984	1.4021	0.0023	0.5905	1.2290	0.0020	0.5176
3061	529	0.6976	0.0013	0.3232	0.6398	0.0012	0.2964	1.3136	0.0025	0.6086	1.2438	0.0024	0.5762
3062	460	0.7600	0.0017	0.3289	0.7272	0.0016	0.3147	1.4461	0.0031	0.6259	1.4968	0.0033	0.6478
3063	547	0.8497	0.0016	0.3444	0.8981	0.0016	0.3640	1.6182	0.0030	0.6558	1.9112	0.0035	0.7745
3064	549	0.6350	0.0012	0.2820	0.6498	0.0012	0.2886	1.2112	0.0022	0.5379	1.1828	0.0022	0.5253
3065	612	0.8109	0.0013	0.3331	0.8099	0.0013	0.3327	1.5649	0.0026	0.6428	1.3781	0.0023	0.5661
3066	571	0.7881	0.0014	0.3178	0.7881	0.0014	0.3178	1.4298	0.0025	0.5765	1.4750	0.0026	0.5948
3067	559	0.7694	0.0014	0.3114	0.2442	0.0004	0.0989	0.9459	0.0017	0.3829	1.4438	0.0026	0.5844
3068	547	0.7705	0.0014	0.3335	0.7539	0.0014	0.3263	1.3743	0.0025	0.5949	1.3889	0.0025	0.6012
3069	531	0.7916	0.0015	0.3450	0.9138	0.0017	0.3982	1.5725	0.0030	0.6853	1.9747	0.0037	0.8606
3070	497	0.7201	0.0014	0.2996	0.7043	0.0014	0.2930	1.3426	0.0027	0.5586	1.5020	0.0030	0.6249
3071	548	0.6986	0.0013	0.3016	0.6947	0.0013	0.2999	1.3646	0.0025	0.5891	1.4537	0.0027	0.6275
3072	561	0.6940	0.0012	0.3055	0.6639	0.0012	0.2922	1.3158	0.0023	0.5792	1.2548	0.0022	0.5523
3073	537	0.7140	0.0013	0.3097	0.7862	0.0015	0.3410	1.4786	0.0028	0.6413	1.0050	0.0019	0.4359
3074	515	0.7785	0.0015	0.3357	0.6811	0.0013	0.2937	1.4235	0.0028	0.6139	1.2948	0.0025	0.5584
3075	614	0.7752	0.0013	0.3140	0.7621	0.0012	0.3087	1.5202	0.0025	0.6158	1.5926	0.0026	0.6452
3076	604	0.6214	0.0010	0.2501	0.6759	0.0011	0.2720	1.2789	0.0021	0.5148	1.5957	0.0026	0.6423

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

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

ORGAN AND FINAL BODY WEIGHTS

MALES GROUP IV 20000 MG/M3

Animal Number	FINAL BODY WEIGHT g	EPIDIDYMIS LEFT Weight g	%FBW	%Brain	EPIDIDYMIS RIGHT Weight g	%FBW	%Brain	EPIDIDYMIDES Weight g	%FBW	%Brain	PROSTATE Weight g	%FBW	%Brain
4051	540	0.7008	0.0013	0.3392	0.6890	0.0013	0.3335	1.3802	0.0026	0.6681	0.9799	0.0018	0.4743
4052	551	0.6028	0.0011	0.2673	0.6454	0.0012	0.2862	1.2424	0.0023	0.5510	0.9636	0.0017	0.4273
4053	527	0.7380	0.0014	0.3686	0.6709	0.0013	0.3350	1.3982	0.0027	0.6983	1.3189	0.0025	0.6587
4054	484	0.6785	0.0014	0.3170	0.6590	0.0014	0.3079	1.3329	0.0028	0.6228	1.2023	0.0025	0.5618
4055	513	0.6847	0.0013	0.3044	0.7219	0.0014	0.3209	1.3872	0.0027	0.6166	1.1328	0.0022	0.5035
4056	504	0.5437	0.0011	0.2491	0.5274	0.0010	0.2416	1.0530	0.0021	0.4824	1.3937	0.0028	0.6385
4057	534	0.6767	0.0013	0.3089	0.6782	0.0013	0.3096	1.3293	0.0025	0.6068	1.0954	0.0021	0.5000
4058	501	0.8550	0.0017	0.3254	0.8520	0.0017	0.3243	1.6803	0.0034	0.6395	2.0816	0.0042	0.7922
4059	559	0.7123	0.0013	0.3213	0.6640	0.0012	0.2996	1.3475	0.0024	0.6079	1.0623	0.0019	0.4792
4060	489	0.7750	0.0016	0.3500	0.7135	0.0015	0.3222	1.3923	0.0028	0.6288	1.3124	0.0027	0.5927
4061	623	0.7251	0.0012	0.3245	0.7333	0.0012	0.3282	1.4288	0.0023	0.6394	1.4420	0.0023	0.6453
4062	545	0.7890	0.0014	0.3161	0.7283	0.0013	0.2918	1.4730	0.0027	0.5901	0.9022	0.0017	0.3614
4063	600	0.8007	0.0013	0.3136	0.6993	0.0012	0.2739	1.4880	0.0025	0.5828	1.9669	0.0033	0.7704
4064	484	0.7316	0.0015	0.3295	0.7340	0.0015	0.3306	1.3404	0.0028	0.6037	1.1301	0.0023	0.5090
4065	519	0.7535	0.0015	0.3455	0.7650	0.0015	0.3508	1.5043	0.0029	0.6898	1.4244	0.0027	0.6531
4066	535	0.7414	0.0014	0.3097	0.7290	0.0014	0.3045	1.3661	0.0026	0.5706	1.5209	0.0028	0.6352
4067	547	0.7770	0.0014	0.3396	0.8433	0.0015	0.3686	1.5014	0.0027	0.6562	1.4374	0.0026	0.6283
4068	543	0.7683	0.0014	0.3360	0.8150	0.0015	0.3565	1.4419	0.0027	0.6306	1.0135	0.0019	0.4433
4069	552	0.7454	0.0013	0.3109	0.7574	0.0014	0.3159	1.4823	0.0027	0.6182	1.5222	0.0028	0.6348
4070	492	0.6761	0.0014	0.2804	0.6719	0.0014	0.2787	1.2945	0.0026	0.5369	1.6559	0.0034	0.6868
4071	636	0.8583	0.0014	0.3661	0.7078	0.0011	0.3019	1.4927	0.0023	0.6367	1.2500	0.0020	0.5331
4072	569	0.8154	0.0014	0.3592	0.8668	0.0015	0.3819	1.6675	0.0029	0.7346	1.5280	0.0027	0.6732
4073	497	0.7966	0.0016	0.3596	0.8465	0.0017	0.3822	1.6054	0.0032	0.7248	1.2400	0.0025	0.5598
4074	517	0.7879	0.0015	0.3393	0.7601	0.0015	0.3273	1.4937	0.0029	0.6433	1.5643	0.0030	0.6737
4075	612	0.7555	0.0012	0.3480	0.7274	0.0012	0.3351	1.3451	0.0022	0.6196	2.0035	0.0033	0.9229
4076	549	0.7279	0.0013	0.3317	0.7459	0.0014	0.3399	1.4545	0.0026	0.6628	1.5752	0.0029	0.7178

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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. Weight g	SEM.VES & CO.GL. %FBW	SEM.VES & CO.GL. %Brain	TESTIS - RIGHT Weight g	TESTIS - RIGHT %FBW	TESTIS - RIGHT %Brain	TESTIS - LEFT Weight g	TESTIS - LEFT %FBW	TESTIS - LEFT %Brain	TESTES Weight g	TESTES %FBW	TESTES %Brain
1051	584	2.3898	0.0041	1.0582	1.7829	0.0031	0.7895	1.7822	0.0030	0.7892	3.5649	0.0061	1.5786
1052	564	2.1355	0.0038	0.9722	1.7863	0.0032	0.8132	1.8116	0.0032	0.8247	3.5952	0.0064	1.6367
1053	571	1.5296	0.0027	0.6852	1.7786	0.0031	0.7967	1.8346	0.0032	0.8218	3.6087	0.0063	1.6165
1054	570	1.2668	0.0022	0.5873	1.7830	0.0031	0.8266	1.7569	0.0031	0.8145	3.5244	0.0062	1.6340
1055	639	1.9146	0.0030	0.8631	1.4773	0.0023	0.6659	1.4663	0.0023	0.6610	2.9367	0.0046	1.3238
1056	547	2.1977	0.0040	0.9383	1.8317	0.0033	0.7820	1.8700	0.0034	0.7984	3.6864	0.0067	1.5739
1057	564	1.6520	0.0029	0.7279	1.6591	0.0029	0.7310	1.7307	0.0031	0.7626	3.3803	0.0060	1.4894
1058	514	1.8498	0.0036	0.7920	1.7729	0.0034	0.7591	1.7304	0.0034	0.7409	3.5887	0.0070	1.5366
1059	500	1.5956	0.0032	0.7389	1.4694	0.0029	0.6805	1.4320	0.0029	0.6631	2.8883	0.0058	1.3375
1060	543	2.4636	0.0045	1.0229	1.5572	0.0029	0.6465	1.5407	0.0028	0.6397	3.0437	0.0056	1.2637
1061	596	1.6317	0.0027	0.6814	1.8089	0.0030	0.7554	1.8860	0.0032	0.7876	3.6812	0.0062	1.5374
1062	543	1.4595	0.0027	0.6101	1.9512	0.0036	0.8157	2.2376	0.0041	0.9354	4.1788	0.0077	1.7469
1063	525	1.7991	0.0034	0.7762	1.9177	0.0037	0.8273	1.9544	0.0037	0.8432	3.7764	0.0072	1.6292
1064	525	2.3221	0.0044	1.0042	1.5671	0.0030	0.6777	1.5738	0.0030	0.6806	3.0895	0.0059	1.3360
1065	578	2.1124	0.0037	0.8852	1.4924	0.0026	0.6254	1.4818	0.0026	0.6209	2.9692	0.0051	1.2442
1066	592	1.9400	0.0033	0.8433	1.8211	0.0031	0.7916	1.8058	0.0030	0.7850	3.5984	0.0061	1.5642
1067	566	1.9145	0.0034	0.8286	1.6778	0.0030	0.7262	1.7550	0.0031	0.7596	3.4248	0.0060	1.4823
1068	618	2.0685	0.0033	0.9094	1.9179	0.0031	0.8431	1.8407	0.0030	0.8092	3.6716	0.0059	1.6141
1069	561	1.5925	0.0028	0.6907	1.7566	0.0031	0.7619	1.7221	0.0031	0.7470	3.4381	0.0061	1.4913
1070	580	2.1917	0.0038	0.9035	1.8253	0.0031	0.7525	1.8562	0.0032	0.7652	3.6235	0.0063	1.4938
1071	614	1.9298	0.0031	0.8981	1.7716	0.0029	0.8245	1.7816	0.0029	0.8291	3.4955	0.0057	1.6267
1072	568	1.6495	0.0029	0.6902	1.7048	0.0030	0.7134	1.7601	0.0031	0.7365	3.4606	0.0061	1.4481
1073	480	2.1641	0.0045	0.9808	1.5854	0.0033	0.7185	1.6120	0.0034	0.7306	3.1941	0.0067	1.4477
1074	611	1.9029	0.0031	0.7914	2.0011	0.0033	0.8322	1.9557	0.0032	0.8133	3.9308	0.0064	1.6348
1075	586	2.2094	0.0038	0.9149	1.8403	0.0031	0.7621	1.8497	0.0032	0.7660	3.6615	0.0062	1.5163
1076	572	2.3257	0.0041	1.1008	1.7525	0.0031	0.8295	1.7713	0.0031	0.8384	3.5060	0.0061	1.6594

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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. Weight g	SEM.VES & CO.GL. %FBW	SEM.VES & CO.GL. %Brain	TESTIS - RIGHT Weight g	TESTIS - RIGHT %FBW	TESTIS - RIGHT %Brain	TESTIS - LEFT Weight g	TESTIS - LEFT %FBW	TESTIS - LEFT %Brain	TESTES Weight g	TESTES %FBW	TESTES %Brain
2051	519	2.2703	0.0044	0.9852	1.9270	0.0037	0.8362	1.9387	0.0037	0.8413	3.8580	0.0074	1.6741
2052	582	1.7693	0.0030	0.7761	1.7342	0.0030	0.7607	1.8652	0.0032	0.8181	3.5869	0.0062	1.5733
2053	585	1.9812	0.0034	0.8899	1.8069	0.0031	0.8117	1.7102	0.0029	0.7682	3.5134	0.0060	1.5782
2054	559	1.9328	0.0035	0.9145	1.5571	0.0028	0.7368	1.5915	0.0028	0.7531	3.1413	0.0056	1.4864
2055	569	2.1811	0.0038	1.0035	1.6618	0.0029	0.7646	1.7280	0.0030	0.7950	3.3845	0.0059	1.5572
2056	709	1.7085	0.0024	0.6974	1.5935	0.0022	0.6504	1.6301	0.0023	0.6654	3.2193	0.0045	1.3141
2057	602	2.2077	0.0037	1.0284	1.8244	0.0030	0.8499	1.8491	0.0031	0.8614	3.6525	0.0061	1.7014
2058	540	2.8849	0.0053	1.2569	1.6221	0.0030	0.7067	1.7796	0.0033	0.7753	3.4040	0.0063	1.4830
2059	462	2.0243	0.0044	0.8364	1.6364	0.0035	0.6761	1.5577	0.0034	0.6436	3.2106	0.0069	1.3266
2060	480	2.8755	0.0060	1.3904	1.5283	0.0032	0.7390	1.5496	0.0032	0.7493	3.0776	0.0064	1.4881
2061	504	2.2437	0.0045	0.9591	1.7219	0.0034	0.7360	1.7040	0.0034	0.7284	3.4183	0.0068	1.4612
2062	589	1.3064	0.0022	0.5581	1.7122	0.0029	0.7315	1.6736	0.0028	0.7150	3.3798	0.0057	1.4439
2063	603	2.2369	0.0037	1.0040	1.8641	0.0031	0.8367	1.7797	0.0030	0.7988	3.5885	0.0060	1.6107
2064	500	2.5222	0.0050	1.0437	1.7318	0.0035	0.7167	1.6716	0.0033	0.6917	3.2624	0.0065	1.3501
2065	523	2.4948	0.0048	1.0974	1.6049	0.0031	0.7059	1.5541	0.0030	0.6836	3.0850	0.0059	1.3570
2066	566	2.3513	0.0042	1.0059	1.8014	0.0032	0.7707	1.7841	0.0032	0.7633	3.5752	0.0063	1.5295
2067	616	3.9434	0.0064	1.5179	2.0752	0.0034	0.7988	2.0743	0.0034	0.7985	4.0398	0.0066	1.5550
2068	537	3.0451	0.0057	1.2141	1.5442	0.0029	0.6157	1.5455	0.0029	0.6162	3.0435	0.0057	1.2135
2069	533	1.3944	0.0026	0.5869	1.5391	0.0029	0.6478	2.0427	0.0038	0.8597	2.9370	0.0055	1.2361
2070	549	1.6116	0.0029	0.6738	1.7932	0.0033	0.7497	1.8278	0.0033	0.7642	3.5202	0.0064	1.4718
2071	561	1.8776	0.0033	0.7769	1.5691	0.0028	0.6493	1.5193	0.0027	0.6287	3.0137	0.0054	1.2470
2072	496	2.2490	0.0045	0.9572	1.8932	0.0038	0.8058	1.9724	0.0040	0.8395	3.7365	0.0075	1.5903
2073	563	1.9004	0.0034	0.8257	1.6707	0.0030	0.7259	1.6247	0.0029	0.7059	3.2925	0.0058	1.4305
2074	581	2.9621	0.0051	1.2596	1.8875	0.0033	0.8026	1.8518	0.0032	0.7875	3.7156	0.0064	1.5800
2075	561	2.6970	0.0048	1.1181	2.1787	0.0039	0.9032	2.2398	0.0040	0.9285	4.3346	0.0077	1.7969
2076	567	2.2251	0.0039	1.0346	1.9781	0.0035	0.9198	1.9410	0.0034	0.9025	3.8905	0.0069	1.8090

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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. Weight g	SEM.VES & CO.GL. %FBW	SEM.VES & CO.GL. %Brain	TESTIS - RIGHT Weight g	TESTIS - RIGHT %FBW	TESTIS - RIGHT %Brain	TESTIS - LEFT Weight g	TESTIS - LEFT %FBW	TESTIS - LEFT %Brain	TESTES Weight g	TESTES %FBW	TESTES %Brain
3051	526	1.5316	0.0029	0.7028	1.5488	0.0029	0.7107	1.5182	0.0029	0.6966	3.0586	0.0058	1.4035
3052	410	2.1778	0.0053	1.0227	1.7157	0.0042	0.8057	1.6523	0.0040	0.7759	3.3605	0.0082	1.5781
3053	475	1.8290	0.0039	0.8665	1.6770	0.0035	0.7945	1.6383	0.0035	0.7762	3.3110	0.0070	1.5687
3054	575	2.3295	0.0040	1.0800	1.6372	0.0028	0.7591	1.6577	0.0029	0.7686	3.2742	0.0057	1.5180
3055	610	2.8391	0.0047	1.1832	1.9105	0.0031	0.7962	1.8678	0.0031	0.7784	3.7613	0.0062	1.5675
3056	554	2.2039	0.0040	0.9699	1.5758	0.0028	0.6935	1.5919	0.0029	0.7006	3.1625	0.0057	1.3918
3057	571	2.0598	0.0036	0.9636	1.6516	0.0029	0.7727	1.6038	0.0028	0.7503	3.2366	0.0057	1.5142
3058	495	2.4967	0.0050	1.1273	1.6285	0.0033	0.7353	1.6735	0.0034	0.7556	3.2574	0.0066	1.4708
3059	498	2.6598	0.0053	1.1576	1.6268	0.0033	0.7080	1.6192	0.0033	0.7047	3.1883	0.0064	1.3876
3060	606	1.6354	0.0027	0.6888	1.6574	0.0027	0.6980	1.5954	0.0026	0.6719	3.2370	0.0053	1.3633
3061	529	1.1976	0.0023	0.5548	1.7918	0.0034	0.8301	1.8383	0.0035	0.8517	3.6152	0.0068	1.6749
3062	460	2.1145	0.0046	0.9151	1.6676	0.0036	0.7217	1.6831	0.0037	0.7284	3.3402	0.0073	1.4456
3063	547	2.9087	0.0053	1.1788	1.9695	0.0036	0.7982	1.8576	0.0034	0.7528	3.6904	0.0068	1.4956
3064	549	1.8391	0.0033	0.8168	1.5465	0.0028	0.6868	1.5831	0.0029	0.7031	3.1649	0.0058	1.4056
3065	612	2.2158	0.0036	0.9102	1.7345	0.0028	0.7125	1.7803	0.0029	0.7313	3.4309	0.0056	1.4093
3066	571	1.9252	0.0034	0.7763	1.6808	0.0029	0.6777	1.6502	0.0029	0.6654	3.1955	0.0056	1.2885
3067	559	1.7513	0.0031	0.7089	0.3192	0.0006	0.1292	1.7031	0.0030	0.6894	1.9831	0.0036	0.8027
3068	547	2.1652	0.0040	0.9372	1.8360	0.0034	0.7947	1.8976	0.0035	0.8214	3.6583	0.0067	1.5835
3069	531	2.5983	0.0049	1.1324	1.8115	0.0034	0.7895	1.7583	0.0033	0.7663	3.4775	0.0065	1.5155
3070	497	2.1625	0.0044	0.8997	1.7431	0.0035	0.7252	1.6719	0.0034	0.6956	3.3722	0.0068	1.4030
3071	548	2.1811	0.0040	0.9415	1.7266	0.0032	0.7453	1.7662	0.0032	0.7624	3.4489	0.0063	1.4888
3072	561	2.2086	0.0039	0.9722	1.4977	0.0027	0.6593	1.6292	0.0029	0.7171	3.0267	0.0054	1.3323
3073	537	2.0206	0.0038	0.8764	1.9616	0.0037	0.8508	1.9643	0.0037	0.8520	3.9006	0.0073	1.6919
3074	515	1.7709	0.0034	0.7637	2.0990	0.0041	0.9052	2.1715	0.0042	0.9365	4.2203	0.0082	1.8200
3075	614	1.7496	0.0028	0.7088	1.8259	0.0030	0.7397	1.8164	0.0030	0.7358	3.5371	0.0058	1.4329
3076	604	1.4482	0.0024	0.5829	1.8053	0.0030	0.7266	1.8189	0.0030	0.7321	3.5957	0.0060	1.4473

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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. Weight g	SEM.VES & CO.GL. %FBW	SEM.VES & CO.GL. %Brain	TESTIS - RIGHT Weight g	TESTIS - RIGHT %FBW	TESTIS - RIGHT %Brain	TESTIS - LEFT Weight g	TESTIS - LEFT %FBW	TESTIS - LEFT %Brain	TESTES Weight g	TESTES %FBW	TESTES %Brain
4051	540	2.4059	0.0045	1.1646	1.6280	0.0030	0.7881	1.6820	0.0031	0.8142	3.3018	0.0061	1.5983
4052	551	2.0415	0.0037	0.9053	1.6666	0.0030	0.7391	1.6652	0.0030	0.7384	3.3202	0.0060	1.4724
4053	527	2.6152	0.0050	1.3060	1.5575	0.0030	0.7778	1.5532	0.0029	0.7757	3.1039	0.0059	1.5501
4054	484	2.1834	0.0045	1.0202	1.4298	0.0030	0.6681	1.3956	0.0029	0.6521	2.8161	0.0058	1.3159
4055	513	1.6105	0.0031	0.7159	1.6453	0.0032	0.7313	1.5672	0.0031	0.6966	3.1991	0.0062	1.4220
4056	504	1.9037	0.0038	0.8721	1.3772	0.0027	0.6309	1.3273	0.0026	0.6081	2.6815	0.0053	1.2285
4057	534	1.1723	0.0022	0.5352	1.9738	0.0037	0.9010	1.9641	0.0037	0.8966	3.9235	0.0073	1.7911
4058	501	2.5149	0.0050	0.9571	1.8786	0.0037	0.7150	1.9061	0.0038	0.7254	3.7083	0.0074	1.4113
4059	559	1.2473	0.0022	0.5627	1.7118	0.0031	0.7723	1.7133	0.0031	0.7729	3.4084	0.0061	1.5377
4060	489	1.6137	0.0033	0.7288	1.6537	0.0034	0.7469	1.5940	0.0033	0.7199	3.1800	0.0065	1.4362
4061	623	2.1043	0.0034	0.9417	1.7038	0.0027	0.7625	1.7277	0.0028	0.7732	3.4075	0.0055	1.5249
4062	545	2.7536	0.0051	1.1031	1.7192	0.0032	0.6887	1.7819	0.0033	0.7138	3.4674	0.0064	1.3891
4063	600	1.9806	0.0033	0.7757	1.7120	0.0029	0.6705	1.6948	0.0028	0.6638	3.3522	0.0056	1.3129
4064	484	2.9785	0.0062	1.3414	1.7195	0.0036	0.7744	1.7253	0.0036	0.7770	3.3229	0.0069	1.4965
4065	519	2.5427	0.0049	1.1659	1.9678	0.0038	0.9023	1.9266	0.0037	0.8834	3.8816	0.0075	1.7798
4066	535	1.4934	0.0028	0.6238	1.7543	0.0033	0.7327	1.6948	0.0032	0.7079	3.3832	0.0063	1.4131
4067	547	2.3589	0.0043	1.0310	1.6816	0.0031	0.7350	1.8132	0.0033	0.7925	3.4494	0.0063	1.5077
4068	543	1.6601	0.0031	0.7261	1.9359	0.0036	0.8467	2.0113	0.0037	0.8797	3.8349	0.0071	1.6773
4069	552	2.7995	0.0051	1.1675	1.8329	0.0033	0.7644	1.9216	0.0035	0.8014	3.6724	0.0066	1.5315
4070	492	1.3033	0.0026	0.5406	1.7517	0.0036	0.7265	1.7790	0.0036	0.7379	3.4845	0.0071	1.4453
4071	636	2.1084	0.0033	0.8993	1.7205	0.0027	0.7338	1.7540	0.0028	0.7481	3.4358	0.0054	1.4654
4072	569	2.8619	0.0050	1.2608	1.9219	0.0034	0.8467	1.9873	0.0035	0.8755	3.9035	0.0069	1.7197
4073	497	2.2315	0.0045	1.0074	1.9336	0.0039	0.8730	1.9220	0.0039	0.8677	3.8490	0.0077	1.7377
4074	517	2.2981	0.0044	0.9897	1.6930	0.0033	0.7291	1.6783	0.0032	0.7228	3.3151	0.0064	1.4276
4075	612	2.0335	0.0033	0.9367	1.8128	0.0030	0.8350	1.9312	0.0032	0.8896	3.6760	0.0060	1.6933
4076	549	2.4432	0.0045	1.1133	1.7250	0.0031	0.7860	1.7498	0.0032	0.7973	3.4411	0.0063	1.5680

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	ADRENALS %FBW	ADRENALS %Brain	BRAIN Weight g	BRAIN %FBW	BRAIN %Brain	KIDNEYS Weight g	KIDNEYS %FBW	KIDNEYS %Brain	LIVER Weight g	LIVER %FBW	LIVER %Brain
1051	584	0.0689	0.0001	0.0305	2.2583	0.0039	1.0000	4.9656	0.0085	2.1988	20.7844	0.0356	9.2036
1052	564	0.0673	0.0001	0.0306	2.1966	0.0039	1.0000	3.8493	0.0068	1.7524	19.9517	0.0354	9.0830
1053	571	0.0623	0.0001	0.0279	2.2324	0.0039	1.0000	4.0976	0.0072	1.8355	21.7669	0.0381	9.7504
1054	570	0.0797	0.0001	0.0370	2.1569	0.0038	1.0000	3.9601	0.0069	1.8360	20.9471	0.0367	9.7117
1055	639	0.0529	0.0001	0.0238	2.2184	0.0035	1.0000	4.3630	0.0068	1.9667	21.9560	0.0344	9.8972
1056	547	0.0506	0.0001	0.0216	2.3422	0.0043	1.0000	4.2442	0.0078	1.8121	19.4499	0.0355	8.3041
1057	564	0.0660	0.0001	0.0291	2.2696	0.0040	1.0000	4.2887	0.0076	1.8896	18.7215	0.0332	8.2488
1058	514	0.0533	0.0001	0.0228	2.3355	0.0045	1.0000	3.7945	0.0074	1.6247	18.4457	0.0359	7.8980
1059	500	0.0456	0.0001	0.0211	2.1594	0.0043	1.0000	4.0172	0.0080	1.8603	19.1535	0.0383	8.8698
1060	543	0.0555	0.0001	0.0230	2.4085	0.0044	1.0000	4.7022	0.0087	1.9523	18.6413	0.0343	7.7398
1061	596	0.0548	0.0001	0.0229	2.3945	0.0040	1.0000	4.6165	0.0077	1.9280	23.1444	0.0388	9.6657
1062	543	0.0897	0.0002	0.0375	2.3921	0.0044	1.0000	4.1903	0.0077	1.7517	19.3998	0.0358	8.1099
1063	525	0.0569	0.0001	0.0245	2.3179	0.0044	1.0000	3.6328	0.0069	1.5673	17.2853	0.0329	7.4573
1064	525	0.0662	0.0001	0.0286	2.3125	0.0044	1.0000	3.8524	0.0073	1.6659	20.4987	0.0391	8.8643
1065	578				2.3864	0.0041	1.0000	4.0802	0.0071	1.7098	21.7869	0.0377	9.1296
1066	592	0.0784	0.0001	0.0341	2.3004	0.0039	1.0000	4.4004	0.0074	1.9129	23.4541	0.0396	10.1957
1067	566	0.0571	0.0001	0.0247	2.3104	0.0041	1.0000	3.9427	0.0070	1.7065	21.0913	0.0373	9.1289
1068	618	0.0885	0.0001	0.0389	2.2747	0.0037	1.0000	4.4218	0.0072	1.9439	23.4001	0.0379	10.2871
1069	561	0.0608	0.0001	0.0264	2.3055	0.0041	1.0000	4.2952	0.0077	1.8630	20.0044	0.0356	8.6768
1070	580	0.0600	0.0001	0.0247	2.4257	0.0042	1.0000	5.0044	0.0086	2.0631	21.2450	0.0367	8.7583
1071	614	0.0656	0.0001	0.0305	2.1488	0.0035	1.0000	4.0846	0.0066	1.9009	22.5802	0.0368	10.5083
1072	568	0.0548	0.0001	0.0229	2.3898	0.0042	1.0000	4.2221	0.0074	1.7667	18.7039	0.0330	7.8266
1073	480	0.0711	0.0001	0.0322	2.2064	0.0046	1.0000	3.7670	0.0079	1.7073	18.3088	0.0382	8.2980
1074	611	0.0496	0.0001	0.0206	2.4045	0.0039	1.0000	4.2254	0.0069	1.7573	22.6178	0.0370	9.4064
1075	586	0.0561	0.0001	0.0232	2.4148	0.0041	1.0000	4.7102	0.0080	1.9506	20.9692	0.0358	8.6836
1076	572	0.0529	0.0001	0.0250	2.1128	0.0037	1.0000	4.2817	0.0075	2.0266	20.5806	0.0360	9.7409

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	ADRENALS %FBW	ADRENALS %Brain	BRAIN Weight g	BRAIN %FBW	BRAIN %Brain	KIDNEYS Weight g	KIDNEYS %FBW	KIDNEYS %Brain	LIVER Weight g	LIVER %FBW	LIVER %Brain
2051	519	0.0707	0.0001	0.0307	2.3045	0.0044	1.0000	3.8945	0.0075	1.6900	18.8992	0.0364	8.2010
2052	582	0.0662	0.0001	0.0290	2.2798	0.0039	1.0000	4.3736	0.0075	1.9184	21.3355	0.0366	9.3585
2053	585	0.0705	0.0001	0.0317	2.2262	0.0038	1.0000	4.8651	0.0083	2.1854	23.1704	0.0396	10.4080
2054	559	0.0670	0.0001	0.0317	2.1134	0.0038	1.0000	4.3562	0.0078	2.0612	21.5727	0.0386	10.2076
2055	569	0.0508	0.0001	0.0234	2.1735	0.0038	1.0000	4.0606	0.0071	1.8682	19.6449	0.0345	9.0384
2056	709	0.0851	0.0001	0.0347	2.4499	0.0035	1.0000	5.6501	0.0080	2.3063	27.6270	0.0389	11.2768
2057	602	0.0773	0.0001	0.0360	2.1467	0.0036	1.0000	4.7047	0.0078	2.1916	23.6311	0.0392	11.0081
2058	540	0.0721	0.0001	0.0314	2.2953	0.0043	1.0000	5.2916	0.0098	2.3054	18.1472	0.0336	7.9062
2059	462				2.4202	0.0052	1.0000	4.7736	0.0103	1.9724	17.7105	0.0383	7.3178
2060	480	0.0616	0.0001	0.0298	2.0681	0.0043	1.0000	4.1506	0.0087	2.0070	18.5250	0.0386	8.9575
2061	504	0.0753	0.0001	0.0322	2.3394	0.0046	1.0000	4.1176	0.0082	1.7601	15.9999	0.0317	6.8393
2062	589	0.0689	0.0001	0.0294	2.3408	0.0040	1.0000	5.0783	0.0086	2.1695	22.9517	0.0390	9.8051
2063	603	0.0630	0.0001	0.0283	2.2279	0.0037	1.0000	5.0208	0.0083	2.2536	18.5549	0.0308	8.3284
2064	500	0.0719	0.0001	0.0298	2.4165	0.0048	1.0000	4.5642	0.0091	1.8888	20.2254	0.0404	8.3697
2065	523	0.0687	0.0001	0.0302	2.2734	0.0043	1.0000	4.2482	0.0081	1.8687	16.1792	0.0309	7.1167
2066	566	0.0530	0.0001	0.0227	2.3375	0.0041	1.0000	4.5185	0.0080	1.9330	20.1925	0.0357	8.6385
2067	616	0.0737	0.0001	0.0284	2.5979	0.0042	1.0000	5.0414	0.0082	1.9406	22.6687	0.0368	8.7258
2068	537	0.0741	0.0001	0.0295	2.5081	0.0047	1.0000	5.2380	0.0098	2.0884	20.2520	0.0377	8.0746
2069	533	0.0419	0.0001	0.0176	2.3760	0.0045	1.0000	3.9979	0.0075	1.6826	17.9917	0.0337	7.5723
2070	549	0.0635	0.0001	0.0265	2.3918	0.0044	1.0000	4.6823	0.0085	1.9576	19.1643	0.0349	8.0125
2071	561	0.0831	0.0001	0.0344	2.4167	0.0043	1.0000	4.6521	0.0083	1.9250	21.0602	0.0376	8.7144
2072	496	0.0635	0.0001	0.0270	2.3496	0.0047	1.0000	3.9386	0.0079	1.6763	16.1394	0.0326	6.8690
2073	563	0.0737	0.0001	0.0320	2.3016	0.0041	1.0000	4.5429	0.0081	1.9738	20.6350	0.0366	8.9655
2074	581	0.0768	0.0001	0.0327	2.3516	0.0040	1.0000	5.3541	0.0092	2.2768	23.0923	0.0398	9.8198
2075	561	0.0660	0.0001	0.0274	2.4122	0.0043	1.0000	4.9056	0.0087	2.0337	22.4164	0.0400	9.2929
2076	567	0.0824	0.0001	0.0383	2.1506	0.0038	1.0000	4.2831	0.0076	1.9916	18.9815	0.0335	8.8261

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	ADRENALS %FBW	ADRENALS %Brain	BRAIN Weight g	BRAIN %FBW	BRAIN %Brain	KIDNEYS Weight g	KIDNEYS %FBW	KIDNEYS %Brain	LIVER Weight g	LIVER %FBW	LIVER %Brain
3051	526	0.0517	0.0001	0.0237	2.1793	0.0041	1.0000	4.2903	0.0082	1.9687	20.9360	0.0398	9.6068
3052	410	0.0476	0.0001	0.0224	2.1295	0.0052	1.0000	3.8081	0.0093	1.7883	14.2477	0.0347	6.6906
3053	475	0.0662	0.0001	0.0314	2.1107	0.0044	1.0000	3.8011	0.0080	1.8009	15.7400	0.0332	7.4572
3054	575	0.0665	0.0001	0.0308	2.1569	0.0037	1.0000	4.3223	0.0075	2.0039	23.0363	0.0400	10.6803
3055	610	0.0833	0.0001	0.0347	2.3996	0.0039	1.0000	5.0879	0.0083	2.1203	23.1291	0.0379	9.6387
3056	554	0.0597	0.0001	0.0263	2.2723	0.0041	1.0000	5.0754	0.0092	2.2336	20.9578	0.0378	9.2232
3057	571	0.0656	0.0001	0.0307	2.1375	0.0037	1.0000	4.7550	0.0083	2.2246	19.8145	0.0347	9.2699
3058	495	0.0463	0.0001	0.0209	2.2147	0.0045	1.0000	6.7458	0.0136	3.0459	19.8681	0.0401	8.9710
3059	498	0.0670	0.0001	0.0292	2.2977	0.0046	1.0000	4.9320	0.0099	2.1465	18.5903	0.0373	8.0908
3060	606	0.0606	0.0001	0.0255	2.3744	0.0039	1.0000	5.6429	0.0093	2.3766	20.9760	0.0346	8.8342
3061	529	0.0620	0.0001	0.0287	2.1585	0.0041	1.0000	4.2729	0.0081	1.9796	19.3371	0.0365	8.9586
3062	460	0.0640	0.0001	0.0277	2.3106	0.0050	1.0000	3.9766	0.0087	1.7210	16.1967	0.0352	7.0097
3063	547	0.0593	0.0001	0.0240	2.4675	0.0045	1.0000	5.6759	0.0104	2.3003	20.4209	0.0374	8.2759
3064	549	0.0662	0.0001	0.0294	2.2517	0.0041	1.0000	4.5348	0.0083	2.0139	21.4942	0.0391	9.5458
3065	612	0.0523	0.0001	0.0215	2.4344	0.0040	1.0000	5.0733	0.0083	2.0840	23.2683	0.0380	9.5581
3066	571	0.0561	0.0001	0.0226	2.4800	0.0043	1.0000	5.2001	0.0091	2.0968	24.1241	0.0422	9.7275
3067	559	0.0543	0.0001	0.0220	2.4704	0.0044	1.0000	4.5252	0.0081	1.8318	21.5577	0.0386	8.7264
3068	547	0.0679	0.0001	0.0294	2.3103	0.0042	1.0000	4.5625	0.0083	1.9749	19.4641	0.0356	8.4249
3069	531	0.0723	0.0001	0.0315	2.2946	0.0043	1.0000	4.8249	0.0091	2.1027	20.0854	0.0378	8.7533
3070	497	0.0591	0.0001	0.0246	2.4035	0.0048	1.0000	4.5545	0.0092	1.8949	18.1481	0.0365	7.5507
3071	548	0.0618	0.0001	0.0267	2.3166	0.0042	1.0000	4.9833	0.0091	2.1511	22.5972	0.0412	9.7545
3072	561	0.0706	0.0001	0.0311	2.2718	0.0041	1.0000	5.0373	0.0090	2.2173	21.8067	0.0389	9.5989
3073	537	0.0734	0.0001	0.0318	2.3055	0.0043	1.0000	5.1739	0.0096	2.2442	20.1869	0.0376	8.7560
3074	515	0.0565	0.0001	0.0244	2.3188	0.0045	1.0000	4.8568	0.0094	2.0945	18.5979	0.0361	8.0205
3075	614	0.0613	0.0001	0.0248	2.4685	0.0040	1.0000	5.1783	0.0084	2.0978	25.8140	0.0420	10.4574
3076	604	0.0683	0.0001	0.0275	2.4845	0.0041	1.0000	4.4970	0.0075	1.8100	21.3074	0.0353	8.5761

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	ADRENALS %FBW	ADRENALS %Brain	BRAIN Weight g	BRAIN %FBW	BRAIN %Brain	KIDNEYS Weight g	KIDNEYS %FBW	KIDNEYS %Brain	LIVER Weight g	LIVER %FBW	LIVER %Brain
4051	540	0.0570	0.0001	0.0276	2.0658	0.0038	1.0000	4.4389	0.0082	2.1488	20.8279	0.0386	10.0822
4052	551	0.0602	0.0001	0.0267	2.2550	0.0041	1.0000	4.8966	0.0089	2.1714	22.2093	0.0403	9.8489
4053	527	0.0513	0.0001	0.0256	2.0024	0.0038	1.0000	4.5553	0.0086	2.2749	20.7400	0.0394	10.3576
4054	484	0.0525	0.0001	0.0245	2.1401	0.0044	1.0000	3.7581	0.0078	1.7560	18.7445	0.0388	8.7587
4055	513	0.0523	0.0001	0.0232	2.2497	0.0044	1.0000	4.6603	0.0091	2.0715	20.2583	0.0395	9.0049
4056	504	0.0674	0.0001	0.0309	2.1828	0.0043	1.0000	4.5245	0.0090	2.0728	20.7556	0.0412	9.5087
4057	534	0.0692	0.0001	0.0316	2.1906	0.0041	1.0000	4.7729	0.0089	2.1788	22.1453	0.0415	10.1092
4058	501	0.0670	0.0001	0.0255	2.6275	0.0052	1.0000	5.3241	0.0106	2.0263	20.2539	0.0404	7.7084
4059	559	0.0620	0.0001	0.0280	2.2166	0.0040	1.0000	5.0545	0.0090	2.2803	21.1109	0.0378	9.5240
4060	489	0.0678	0.0001	0.0306	2.2142	0.0045	1.0000	4.8112	0.0098	2.1729	17.9781	0.0368	8.1195
4061	623	0.0592	0.0001	0.0265	2.2346	0.0036	1.0000	5.1737	0.0083	2.3153	22.5670	0.0362	10.0989
4062	545	0.0638	0.0001	0.0256	2.4962	0.0046	1.0000	5.4586	0.0100	2.1868	23.2599	0.0427	9.3181
4063	600	0.0779	0.0001	0.0305	2.5532	0.0043	1.0000	5.0426	0.0084	1.9750	23.2219	0.0387	9.0952
4064	484	0.0618	0.0001	0.0278	2.2204	0.0046	1.0000	4.7366	0.0098	2.1332	18.6765	0.0386	8.4113
4065	519	0.0660	0.0001	0.0303	2.1809	0.0042	1.0000	4.8095	0.0093	2.2053	20.6706	0.0399	9.4780
4066	535	0.0620	0.0001	0.0259	2.3942	0.0045	1.0000	4.3735	0.0082	1.8267	18.8084	0.0352	7.8558
4067	547	0.0730	0.0001	0.0319	2.2879	0.0042	1.0000	5.0490	0.0092	2.2068	21.6592	0.0396	9.4668
4068	543	0.0786	0.0001	0.0344	2.2864	0.0042	1.0000	5.4406	0.0100	2.3795	20.4991	0.0378	8.9657
4069	552	0.0891	0.0002	0.0372	2.3979	0.0043	1.0000	5.3669	0.0097	2.2382	22.2579	0.0403	9.2822
4070	492	0.0531	0.0001	0.0220	2.4110	0.0049	1.0000	4.4224	0.0090	1.8343	17.3075	0.0352	7.1786
4071	636	0.0686	0.0001	0.0293	2.3446	0.0037	1.0000	6.1206	0.0096	2.6105	24.8381	0.0391	10.5937
4072	569	0.0725	0.0001	0.0319	2.2699	0.0040	1.0000	5.4947	0.0097	2.4207	20.7923	0.0366	9.1600
4073	497	0.0629	0.0001	0.0284	2.2150	0.0045	1.0000	3.7328	0.0075	1.6852	16.9540	0.0341	7.6542
4074	517	0.0605	0.0001	0.0261	2.3221	0.0045	1.0000	5.2348	0.0101	2.2543	20.4926	0.0397	8.8250
4075	612	0.0711	0.0001	0.0328	2.1709	0.0035	1.0000	5.1138	0.0084	2.3556	23.1802	0.0379	10.6777
4076	549	0.0661	0.0001	0.0301	2.1946	0.0040	1.0000	5.4781	0.0100	2.4962	21.1627	0.0386	9.6431

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	LUNGS %FBW	LUNGS %Brain	PITUITARY Weight g	PITUITARY %FBW	PITUITARY %Brain	SPLEEN Weight g	SPLEEN %FBW	SPLEEN %Brain
1051	584	1.8173	0.0031	0.8047	0.0100	0.0000	0.0044	0.7438	0.0013	0.3294
1052	564	1.9039	0.0034	0.8667	0.0148	0.0000	0.0067	0.9951	0.0018	0.4530
1053	571	1.8356	0.0032	0.8223	0.0131	0.0000	0.0059	0.8087	0.0014	0.3623
1054	570	1.8268	0.0032	0.8470	0.0153	0.0000	0.0071	0.7784	0.0014	0.3609
1055	639	1.7368	0.0027	0.7829	0.0158	0.0000	0.0071	0.9364	0.0015	0.4221
1056	547	1.7097	0.0031	0.7300	0.0147	0.0000	0.0063	0.5175	0.0009	0.2209
1057	564	2.0640	0.0037	0.9094	0.0134	0.0000	0.0059	0.8536	0.0015	0.3761
1058	514	1.9264	0.0037	0.8248	0.0144	0.0000	0.0062	0.6830	0.0013	0.2924
1059	500	1.7216	0.0034	0.7973	0.0106	0.0000	0.0049	0.7450	0.0015	0.3450
1060	543	1.9213	0.0035	0.7977	0.0143	0.0000	0.0059	0.8869	0.0016	0.3682
1061	596	2.2308	0.0037	0.9316	0.0124	0.0000	0.0052	1.0167	0.0017	0.4246
1062	543	2.1207	0.0039	0.8865	0.0154	0.0000	0.0064	1.0173	0.0019	0.4253
1063	525	2.0773	0.0040	0.8962	0.0138	0.0000	0.0060	1.0114	0.0019	0.4363
1064	525	2.1575	0.0041	0.9330	0.0162	0.0000	0.0070	0.9809	0.0019	0.4242
1065	578	1.7631	0.0031	0.7388	0.0145	0.0000	0.0061	0.8260	0.0014	0.3461
1066	592	2.2266	0.0038	0.9679	0.0168	0.0000	0.0073	1.0250	0.0017	0.4456
1067	566	2.0518	0.0036	0.8881	0.0133	0.0000	0.0058	0.8810	0.0016	0.3813
1068	618	2.0557	0.0033	0.9037	0.0159	0.0000	0.0070	0.9202	0.0015	0.4045
1069	561	1.9873	0.0035	0.8620	0.0149	0.0000	0.0065	1.0109	0.0018	0.4385
1070	580	2.3977	0.0041	0.9885	0.0147	0.0000	0.0061	0.9535	0.0016	0.3931
1071	614	2.1164	0.0034	0.9849	0.0143	0.0000	0.0067	0.8448	0.0014	0.3931
1072	568	2.0979	0.0037	0.8779	0.0147	0.0000	0.0062	0.9050	0.0016	0.3787
1073	480	1.7026	0.0035	0.7717	0.0142	0.0000	0.0064	0.6783	0.0014	0.3074
1074	611	1.9778	0.0032	0.8225	0.0133	0.0000	0.0055	1.0111	0.0017	0.4205
1075	586	2.3538	0.0040	0.9747	0.0140	0.0000	0.0058	1.0416	0.0018	0.4313
1076	572	2.0339	0.0036	0.9627	0.0150	0.0000	0.0071	0.9387	0.0016	0.4443

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	LUNGS %FBW	LUNGS %Brain	PITUITARY Weight g	PITUITARY %FBW	PITUITARY %Brain	SPLEEN Weight g	SPLEEN %FBW	SPLEEN %Brain
2051	519	1.7694	0.0034	0.7678	0.0139	0.0000	0.0060	0.8090	0.0016	0.3511
2052	582	1.9656	0.0034	0.8622	0.0142	0.0000	0.0062	1.0075	0.0017	0.4419
2053	585	1.8957	0.0032	0.8515	0.0162	0.0000	0.0073	0.8572	0.0015	0.3851
2054	559	1.8048	0.0032	0.8540	0.0136	0.0000	0.0064	1.0106	0.0018	0.4782
2055	569	2.1599	0.0038	0.9937	0.0108	0.0000	0.0050	0.9080	0.0016	0.4178
2056	709	2.4688	0.0035	1.0077	0.0185	0.0000	0.0076	1.0177	0.0014	0.4154
2057	602	2.1369	0.0035	0.9954	0.0144	0.0000	0.0067	1.2278	0.0020	0.5719
2058	540	2.4206	0.0045	1.0546	0.0217	0.0000	0.0095	0.8051	0.0015	0.3508
2059	462	1.6534	0.0036	0.6832	0.0139	0.0000	0.0057	0.7148	0.0015	0.2953
2060	480	1.6701	0.0035	0.8076	0.0106	0.0000	0.0051	0.7484	0.0016	0.3619
2061	504	1.9632	0.0039	0.8392	0.0133	0.0000	0.0057	0.8119	0.0016	0.3471
2062	589	2.2260	0.0038	0.9510	0.0198	0.0000	0.0085	0.9587	0.0016	0.4096
2063	603	2.2162	0.0037	0.9947	0.0148	0.0000	0.0066	0.9188	0.0015	0.4124
2064	500	1.9809	0.0040	0.8197	0.0154	0.0000	0.0064	0.7955	0.0016	0.3292
2065	523	1.7946	0.0034	0.7894	0.0128	0.0000	0.0056	0.7786	0.0015	0.3425
2066	566	2.0987	0.0037	0.8978	0.0143	0.0000	0.0061	0.8871	0.0016	0.3795
2067	616	2.2422	0.0036	0.8631	0.0168	0.0000	0.0065	1.0729	0.0017	0.4130
2068	537	2.2647	0.0042	0.9030	0.0122	0.0000	0.0049	0.8925	0.0017	0.3558
2069	533	1.9437	0.0036	0.8181	0.0124	0.0000	0.0052	1.0313	0.0019	0.4340
2070	549	2.0257	0.0037	0.8469	0.0100	0.0000	0.0042	0.8985	0.0016	0.3757
2071	561	2.2395	0.0040	0.9267	0.0113	0.0000	0.0047	0.8645	0.0015	0.3577
2072	496	1.8526	0.0037	0.7885	0.0126	0.0000	0.0054	0.9621	0.0019	0.4095
2073	563	2.0314	0.0036	0.8826	0.0145	0.0000	0.0063	0.8663	0.0015	0.3764
2074	581	2.4177	0.0042	1.0281	0.0141	0.0000	0.0060	1.1384	0.0020	0.4841
2075	561	2.3493	0.0042	0.9739	0.0159	0.0000	0.0066	0.8372	0.0015	0.3471
2076	567	2.0251	0.0036	0.9416	0.0159	0.0000	0.0074	0.9906	0.0017	0.4606

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	LUNGS %FBW	LUNGS %Brain	PITUITARY Weight g	PITUITARY %FBW	PITUITARY %Brain	SPLEEN Weight g	SPLEEN %FBW	SPLEEN %Brain
3051	526	1.5719	0.0030	0.7213	0.0067	0.0000	0.0031	0.6382	0.0012	0.2928
3052	410	1.7789	0.0043	0.8354	0.0119	0.0000	0.0056	0.9766	0.0024	0.4586
3053	475	1.7724	0.0037	0.8397	0.0109	0.0000	0.0052	0.6322	0.0013	0.2995
3054	575	1.9067	0.0033	0.8840	0.0126	0.0000	0.0058	1.0237	0.0018	0.4746
3055	610	1.9672	0.0032	0.8198	0.0128	0.0000	0.0053	0.9695	0.0016	0.4040
3056	554	2.0078	0.0036	0.8836	0.0136	0.0000	0.0060	1.0185	0.0018	0.4482
3057	571	1.4935	0.0026	0.6987	0.0128	0.0000	0.0060	0.8031	0.0014	0.3757
3058	495	1.8304	0.0037	0.8265	0.0126	0.0000	0.0057	0.6040	0.0012	0.2727
3059	498	2.0203	0.0041	0.8793	0.0238	0.0000	0.0104	0.8453	0.0017	0.3679
3060	606	2.1826	0.0036	0.9192	0.0154	0.0000	0.0065	0.9540	0.0016	0.4018
3061	529	1.8228	0.0034	0.8445	0.0124	0.0000	0.0057	0.6752	0.0013	0.3128
3062	460	1.9476	0.0042	0.8429	0.0155	0.0000	0.0067	0.8287	0.0018	0.3587
3063	547	1.9276	0.0035	0.7812	0.0154	0.0000	0.0062	1.0619	0.0019	0.4304
3064	549	1.8746	0.0034	0.8325	0.0115	0.0000	0.0051	0.7910	0.0014	0.3513
3065	612	2.1914	0.0036	0.9002	0.0115	0.0000	0.0047	1.0093	0.0016	0.4146
3066	571	2.1367	0.0037	0.8616	0.0115	0.0000	0.0046	0.9295	0.0016	0.3748
3067	559	1.9203	0.0034	0.7773	0.0147	0.0000	0.0060	0.9231	0.0017	0.3737
3068	547	2.1730	0.0040	0.9406	0.0139	0.0000	0.0060	0.7623	0.0014	0.3300
3069	531	2.0594	0.0039	0.8975	0.0134	0.0000	0.0058	0.8978	0.0017	0.3913
3070	497	1.8436	0.0037	0.7670	0.0124	0.0000	0.0052	0.8002	0.0016	0.3329
3071	548	2.0921	0.0038	0.9031	0.0127	0.0000	0.0055	0.8415	0.0015	0.3632
3072	561	2.0727	0.0037	0.9124	0.0132	0.0000	0.0058	0.8761	0.0016	0.3856
3073	537	1.9029	0.0035	0.8254	0.0130	0.0000	0.0056	0.7669	0.0014	0.3326
3074	515	1.8915	0.0037	0.8157	0.0125	0.0000	0.0054	0.7593	0.0015	0.3275
3075	614	2.1376	0.0035	0.8660	0.0134	0.0000	0.0054	1.1089	0.0018	0.4492
3076	604	2.0844	0.0035	0.8390	0.0154	0.0000	0.0062	1.0168	0.0017	0.4093

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	LUNGS %FBW	LUNGS %Brain	PITUITARY Weight g	PITUITARY %FBW	PITUITARY %Brain	SPLEEN Weight g	SPLEEN %FBW	SPLEEN %Brain
4051	540	1.7871	0.0033	0.8651	0.0137	0.0000	0.0066	0.7884	0.0015	0.3816
4052	551	1.6930	0.0031	0.7508	0.0141	0.0000	0.0063	0.8297	0.0015	0.3679
4053	527	1.7833	0.0034	0.8906	0.0113	0.0000	0.0056	0.8225	0.0016	0.4108
4054	484	1.7410	0.0036	0.8135	0.0122	0.0000	0.0057	0.5265	0.0011	0.2460
4055	513	1.7696	0.0035	0.7866	0.0110	0.0000	0.0049	0.6994	0.0014	0.3109
4056	504	1.6441	0.0033	0.7532	0.0134	0.0000	0.0061	0.8426	0.0017	0.3860
4057	534	1.5907	0.0030	0.7261	0.0119	0.0000	0.0054	0.7821	0.0015	0.3570
4058	501	2.3128	0.0046	0.8802	0.0167	0.0000	0.0064	0.9821	0.0020	0.3738
4059	559	1.8218	0.0033	0.8219	0.0114	0.0000	0.0051	0.8265	0.0015	0.3729
4060	489	1.7069	0.0035	0.7709	0.0143	0.0000	0.0065	0.7209	0.0015	0.3256
4061	623	2.0141	0.0032	0.9013	0.0140	0.0000	0.0063	0.6864	0.0011	0.3072
4062	545	1.9603	0.0036	0.7853	0.0169	0.0000	0.0068	0.9333	0.0017	0.3739
4063	600	2.3354	0.0039	0.9147	0.0182	0.0000	0.0071	1.1003	0.0018	0.4309
4064	484	1.8709	0.0039	0.8426	0.0109	0.0000	0.0049	0.8614	0.0018	0.3879
4065	519	1.7378	0.0034	0.7968	0.0147	0.0000	0.0067	0.8743	0.0017	0.4009
4066	535	1.8634	0.0035	0.7783	0.0127	0.0000	0.0053	0.8309	0.0016	0.3470
4067	547	2.2098	0.0040	0.9659	0.0132	0.0000	0.0058	1.0573	0.0019	0.4621
4068	543	2.1864	0.0040	0.9563	0.0098	0.0000	0.0043	0.8314	0.0015	0.3636
4069	552	2.2109	0.0040	0.9220	0.0130	0.0000	0.0054	0.8181	0.0015	0.3412
4070	492	1.9946	0.0041	0.8273	0.0105	0.0000	0.0044	0.8582	0.0017	0.3560
4071	636	2.3967	0.0038	1.0222	0.0166	0.0000	0.0071	0.9098	0.0014	0.3880
4072	569	2.1948	0.0039	0.9669	0.0120	0.0000	0.0053	0.8189	0.0014	0.3608
4073	497	1.8898	0.0038	0.8532	0.0150	0.0000	0.0068	0.7287	0.0015	0.3290
4074	517	1.9699	0.0038	0.8483	0.0122	0.0000	0.0053	0.8487	0.0016	0.3655
4075	612	2.0349	0.0033	0.9374	0.0145	0.0000	0.0067	0.9226	0.0015	0.4250
4076	549	2.1869	0.0040	0.9965	0.0160	0.0000	0.0073	0.9513	0.0017	0.4335

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	ADRENALS %FBW	ADRENALS %Brain	BRAIN Weight g	BRAIN %FBW	BRAIN %Brain	KIDNEYS Weight g	KIDNEYS %FBW	KIDNEYS %Brain	LIVER Weight g	LIVER %FBW	LIVER %Brain
1551	291	0.0833	0.0003	0.0428	1.9472	0.0067	1.0000	2.5037	0.0086	1.2858	12.0117	0.0413	6.1687
1552	310	0.0821	0.0003	0.0422	1.9466	0.0063	1.0000	2.5785	0.0083	1.3246	13.9433	0.0450	7.1629
1553	279	0.0647	0.0002	0.0327	1.9806	0.0071	1.0000	2.4614	0.0088	1.2428	11.4404	0.0410	5.7762
1554	383	0.0843	0.0002	0.0410	2.0564	0.0054	1.0000	3.1268	0.0082	1.5205	18.3635	0.0480	8.9299
1555	312	0.0818	0.0003	0.0406	2.0172	0.0065	1.0000	2.9530	0.0095	1.4639	14.9497	0.0479	7.4111
1556	320	0.0832	0.0003	0.0413	2.0149	0.0063	1.0000	2.4090	0.0075	1.1956	13.5854	0.0425	6.7425
1557	324	0.0791	0.0002	0.0397	1.9905	0.0061	1.0000	2.7569	0.0085	1.3850	17.1136	0.0528	8.5976
1558	307	0.0737	0.0002	0.0344	2.1400	0.0070	1.0000	2.7166	0.0089	1.2694	15.0182	0.0490	7.0178
1559	312	0.0787	0.0003	0.0397	1.9812	0.0063	1.0000	2.6726	0.0086	1.3490	13.9947	0.0449	7.0637
1560	317	0.0939	0.0003	0.0482	1.9498	0.0061	1.0000	2.5471	0.0080	1.3063	16.1224	0.0508	8.2687
1561	345	0.0902	0.0003	0.0459	1.9638	0.0057	1.0000	2.8473	0.0083	1.4499	16.3218	0.0473	8.3113
1562	312	0.0934	0.0003	0.0466	2.0057	0.0064	1.0000	2.9850	0.0096	1.4883	15.5125	0.0497	7.7342
1563	300	0.0844	0.0003	0.0448	1.8834	0.0063	1.0000	2.4625	0.0082	1.3075	14.5615	0.0485	7.7315
1564	353	0.0878	0.0002	0.0410	2.1399	0.0061	1.0000	2.9385	0.0083	1.3732	16.1778	0.0458	7.5601
1565	318	0.0615	0.0002	0.0323	1.9018	0.0060	1.0000	2.6670	0.0084	1.4024	15.9090	0.0500	8.3652
1566	333	0.0903	0.0003	0.0450	2.0081	0.0060	1.0000	3.0260	0.0091	1.5069	14.7684	0.0443	7.3544
1567	303	0.0808	0.0003	0.0408	1.9788	0.0065	1.0000	2.4123	0.0080	1.2191	13.0229	0.0429	6.5812
1568	284	0.0749	0.0003	0.0389	1.9230	0.0068	1.0000	2.4759	0.0087	1.2875	13.2109	0.0466	6.8699
1569	365	0.0743	0.0002	0.0369	2.0152	0.0055	1.0000	2.6409	0.0072	1.3105	16.9732	0.0465	8.4226
1570	327	0.0720	0.0002	0.0370	1.9444	0.0059	1.0000	2.6395	0.0081	1.3575	16.4224	0.0502	8.4460
1571	318	0.0818	0.0003	0.0403	2.0285	0.0064	1.0000	2.8398	0.0089	1.4000	16.3095	0.0513	8.0402
1572	355	0.0884	0.0002	0.0428	2.0642	0.0058	1.0000	2.9707	0.0084	1.4392	17.2455	0.0486	8.3546
1573	385	0.0991	0.0003	0.0464	2.1356	0.0055	1.0000	3.2691	0.0085	1.5308	17.2889	0.0449	8.0956
1574	323	0.0905	0.0003	0.0440	2.0574	0.0064	1.0000	3.1282	0.0097	1.5205	16.7772	0.0520	8.1546
1575	302	0.0552	0.0002	0.0267	2.0698	0.0068	1.0000	2.7385	0.0091	1.3231	16.4398	0.0544	7.9427

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	ADRENALS %FBW	ADRENALS %Brain	BRAIN Weight g	BRAIN %FBW	BRAIN %Brain	KIDNEYS Weight g	KIDNEYS %FBW	KIDNEYS %Brain	LIVER Weight g	LIVER %FBW	LIVER %Brain
2551	331	0.0894	0.0003	0.0440	2.0316	0.0061	1.0000	2.4953	0.0075	1.2282	14.9494	0.0452	7.3584
2552	344	0.0833	0.0002	0.0390	2.1368	0.0062	1.0000	2.7211	0.0079	1.2734	15.0260	0.0437	7.0320
2553	280	0.0775	0.0003	0.0407	1.9036	0.0068	1.0000	2.4871	0.0089	1.3065	12.6672	0.0453	6.6543
2554	345	0.0906	0.0003	0.0436	2.0773	0.0060	1.0000	2.7272	0.0079	1.3129	15.5244	0.0450	7.4734
2555	349	0.0934	0.0003	0.0424	2.2008	0.0063	1.0000	3.5204	0.0101	1.5996	18.6709	0.0535	8.4837
2556	287	0.0708	0.0002	0.0355	1.9963	0.0070	1.0000	2.5554	0.0089	1.2801	11.2443	0.0392	5.6326
2557	314	0.0720	0.0002	0.0341	2.1145	0.0067	1.0000	2.9343	0.0093	1.3877	17.2575	0.0549	8.1615
2558	336	0.0777	0.0002	0.0368	2.1096	0.0063	1.0000	3.0138	0.0090	1.4286	16.0046	0.0476	7.5866
2559	320	0.0782	0.0002	0.0404	1.9361	0.0061	1.0000	2.3938	0.0075	1.2364	13.1823	0.0412	6.8087
2560	314	0.0743	0.0002	0.0377	1.9711	0.0063	1.0000	2.5803	0.0082	1.3091	16.3399	0.0521	8.2897
2561	312	0.0833	0.0003	0.0419	1.9882	0.0064	1.0000	2.4539	0.0079	1.2342	14.0433	0.0450	7.0633
2562	292	0.0816	0.0003	0.0404	2.0176	0.0069	1.0000	2.3613	0.0081	1.1704	12.6114	0.0432	6.2507
2563	338	0.0655	0.0002	0.0333	1.9695	0.0058	1.0000	2.8631	0.0085	1.4537	16.9908	0.0503	8.6270
2564	292	0.0975	0.0003	0.0490	1.9888	0.0068	1.0000	2.4836	0.0085	1.2488	12.8138	0.0439	6.4430
2565	301	0.0852	0.0003	0.0466	1.8274	0.0061	1.0000	2.5218	0.0084	1.3800	15.1695	0.0504	8.3011
2567	335	0.0641	0.0002	0.0305	2.1039	0.0063	1.0000	2.8618	0.0085	1.3602	16.6820	0.0498	7.9291
2568	304	0.0746	0.0002	0.0377	1.9797	0.0065	1.0000	2.8800	0.0095	1.4548	13.9177	0.0458	7.0302
2569	312	0.0962	0.0003	0.0507	1.8971	0.0061	1.0000	2.5419	0.0081	1.3399	13.2596	0.0425	6.9894
2570	318	0.0934	0.0003	0.0425	2.1982	0.0069	1.0000	3.0546	0.0096	1.3896	15.3415	0.0482	6.9791
2571	329	0.1040	0.0003	0.0520	1.9992	0.0061	1.0000	2.7880	0.0085	1.3946	15.6694	0.0476	7.8378
2572	330	0.0880	0.0003	0.0434	2.0287	0.0062	1.0000	2.2957	0.0070	1.1316	14.8591	0.0451	7.3244
2573	330	0.0830	0.0003	0.0421	1.9728	0.0060	1.0000	2.8024	0.0085	1.4205	16.6606	0.0505	8.4452
2574	389	0.0810	0.0002	0.0382	2.1196	0.0054	1.0000	3.1825	0.0082	1.5015	16.6255	0.0427	7.8437
2575	363	0.0845	0.0002	0.0402	2.1022	0.0058	1.0000	2.9332	0.0081	1.3953	16.0357	0.0442	7.6281
2576	304	0.0877	0.0003	0.0456	1.9244	0.0063	1.0000	2.7916	0.0092	1.4506	14.8144	0.0487	7.6982

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	ADRENALS %FBW	ADRENALS %Brain	BRAIN Weight g	BRAIN %FBW	BRAIN %Brain	KIDNEYS Weight g	KIDNEYS %FBW	KIDNEYS %Brain	LIVER Weight g	LIVER %FBW	LIVER %Brain
3551	294	0.0805	0.0003	0.0371	2.1717	0.0074	1.0000	2.7647	0.0094	1.2731	15.4013	0.0525	7.0918
3553	364	0.0813	0.0002	0.0399	2.0357	0.0056	1.0000	4.8604	0.0134	2.3876	20.4587	0.0562	10.0500
3554	300	0.0602	0.0002	0.0320	1.8797	0.0063	1.0000	2.7601	0.0092	1.4684	13.2099	0.0441	7.0277
3555	286	0.0936	0.0003	0.0460	2.0341	0.0071	1.0000	2.5620	0.0090	1.2595	15.0597	0.0527	7.4036
3556	319	0.0746	0.0002	0.0371	2.0106	0.0063	1.0000	2.8479	0.0089	1.4164	14.5663	0.0456	7.2448
3557	330	0.1031	0.0003	0.0476	2.1648	0.0066	1.0000	3.1010	0.0094	1.4325	16.9058	0.0513	7.8094
3558	285	0.0651	0.0002	0.0328	1.9825	0.0070	1.0000	2.3169	0.0081	1.1687	11.9888	0.0421	6.0473
3559	326	0.0962	0.0003	0.0481	1.9984	0.0061	1.0000	2.7034	0.0083	1.3528	15.1711	0.0465	7.5916
3560	321	0.0665	0.0002	0.0317	2.0999	0.0065	1.0000	2.9803	0.0093	1.4193	16.2200	0.0505	7.7242
3561	301	0.0802	0.0003	0.0412	1.9481	0.0065	1.0000	2.5808	0.0086	1.3248	13.1144	0.0435	6.7319
3562	338	0.0683	0.0002	0.0324	2.1057	0.0062	1.0000	3.1026	0.0092	1.4734	17.5288	0.0519	8.3245
3563	300	0.0848	0.0003	0.0455	1.8632	0.0062	1.0000	2.5211	0.0084	1.3531	13.8718	0.0463	7.4451
3564	275	0.0714	0.0003	0.0340	2.0977	0.0076	1.0000	2.5957	0.0095	1.2374	12.0820	0.0440	5.7596
3565	263	0.0588	0.0002	0.0285	2.0612	0.0079	1.0000	2.3063	0.0088	1.1189	11.7293	0.0447	5.6905
3566	266	0.0650	0.0002	0.0334	1.9438	0.0073	1.0000	2.5249	0.0095	1.2990	10.9885	0.0414	5.6531
3567	288	0.0729	0.0003	0.0353	2.0675	0.0072	1.0000	2.6394	0.0092	1.2766	13.3352	0.0464	6.4499
3568	303	0.0730	0.0002	0.0391	1.8683	0.0062	1.0000	2.5854	0.0085	1.3838	14.3632	0.0475	7.6878
3569	334	0.0793	0.0002	0.0379	2.0913	0.0063	1.0000	2.6438	0.0079	1.2642	12.4661	0.0373	5.9609
3570	346	0.0753	0.0002	0.0384	1.9603	0.0057	1.0000	2.8410	0.0082	1.4493	15.8016	0.0456	8.0608
3571	339	0.0719	0.0002	0.0354	2.0293	0.0060	1.0000	2.8333	0.0084	1.3962	17.6735	0.0522	8.7092
3572	325	0.0822	0.0003	0.0431	1.9057	0.0059	1.0000	2.9115	0.0090	1.5278	14.2819	0.0439	7.4943
3573	367	0.0925	0.0003	0.0413	2.2372	0.0061	1.0000	3.1678	0.0086	1.4160	19.2050	0.0523	8.5844
3574	328	0.0823	0.0003	0.0399	2.0609	0.0063	1.0000	2.7261	0.0083	1.3228	14.5460	0.0444	7.0581
3575	320	0.0666	0.0002	0.0346	1.9250	0.0060	1.0000	2.7826	0.0087	1.4455	14.7498	0.0460	7.6622
3576	294	0.0808	0.0003	0.0414	1.9499	0.0066	1.0000	2.5752	0.0087	1.3207	13.2491	0.0450	6.7948

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	ADRENALS %FBW	ADRENALS %Brain	BRAIN Weight g	BRAIN %FBW	BRAIN %Brain	KIDNEYS Weight g	KIDNEYS %FBW	KIDNEYS %Brain	LIVER Weight g	LIVER %FBW	LIVER %Brain
4551	328	0.0698	0.0002	0.0331	2.1112	0.0064	1.0000	3.0031	0.0092	1.4225	16.4028	0.0500	7.7694
4552	324	0.0883	0.0003	0.0433	2.0390	0.0063	1.0000	2.7487	0.0085	1.3481	16.8598	0.0521	8.2687
4553	273	0.0738	0.0003	0.0330	2.2354	0.0082	1.0000	2.9326	0.0108	1.3119	12.2128	0.0448	5.4634
4554	320	0.0718	0.0002	0.0347	2.0714	0.0065	1.0000	2.5094	0.0079	1.2115	13.8158	0.0432	6.6698
4555	312	0.0994	0.0003	0.0481	2.0652	0.0066	1.0000	2.7772	0.0089	1.3448	13.1871	0.0423	6.3854
4556	307	0.0771	0.0003	0.0397	1.9410	0.0063	1.0000	2.4958	0.0081	1.2858	13.7418	0.0448	7.0798
4557	297	0.0882	0.0003	0.0430	2.0511	0.0069	1.0000	2.8628	0.0096	1.3957	15.5713	0.0524	7.5917
4558	353	0.0748	0.0002	0.0373	2.0054	0.0057	1.0000	2.9869	0.0085	1.4894	15.5185	0.0440	7.7384
4559	285	0.0661	0.0002	0.0342	1.9311	0.0068	1.0000	2.2595	0.0079	1.1701	13.4298	0.0471	6.9545
4560	334	0.0872	0.0003	0.0436	1.9993	0.0060	1.0000	2.7512	0.0082	1.3761	15.4844	0.0464	7.7449
4561	298	0.1102	0.0004	0.0560	1.9685	0.0066	1.0000	2.8681	0.0096	1.4570	14.6710	0.0492	7.4529
4562	321	0.0867	0.0003	0.0415	2.0879	0.0065	1.0000	3.2341	0.0101	1.5490	15.7400	0.0491	7.5387
4563	310	0.0826	0.0003	0.0429	1.9257	0.0062	1.0000	2.5503	0.0082	1.3243	13.1873	0.0426	6.8481
4564	372	0.1142	0.0003	0.0479	2.3838	0.0064	1.0000	3.3968	0.0091	1.4250	20.6050	0.0554	8.6438
4566	294	0.0842	0.0003	0.0416	2.0259	0.0069	1.0000	2.6642	0.0091	1.3151	14.3971	0.0490	7.1065
4567	291	0.0703	0.0002	0.0336	2.0923	0.0072	1.0000	2.7431	0.0094	1.3110	14.6087	0.0503	6.9821
4568	280	0.0647	0.0002	0.0345	1.8767	0.0067	1.0000	2.3572	0.0084	1.2560	13.9011	0.0496	7.4072
4569	303	0.0814	0.0003	0.0431	1.8877	0.0062	1.0000	2.8857	0.0095	1.5287	14.7072	0.0486	7.7911
4570	323	0.0693	0.0002	0.0340	2.0377	0.0063	1.0000	2.9234	0.0090	1.4347	17.3585	0.0537	8.5187
4571	305	0.1069	0.0004	0.0495	2.1593	0.0071	1.0000	2.9316	0.0096	1.3577	16.9057	0.0555	7.8293
4572	322	0.0765	0.0002	0.0376	2.0341	0.0063	1.0000	2.8320	0.0088	1.3923	17.0970	0.0530	8.4052
4573	336	0.0759	0.0002	0.0372	2.0419	0.0061	1.0000	2.7737	0.0083	1.3584	16.5367	0.0492	8.0987
4574	304	0.0960	0.0003	0.0485	1.9804	0.0065	1.0000	3.4618	0.0114	1.7480	19.0810	0.0628	9.6349
4575	322	0.0650	0.0002	0.0318	2.0460	0.0064	1.0000	2.8712	0.0089	1.4033	14.2594	0.0443	6.9694
4576	323	0.0716	0.0002	0.0347	2.0614	0.0064	1.0000	3.0342	0.0094	1.4719	16.1746	0.0502	7.8464

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	LUNGS %FBW	LUNGS %Brain	PITUITARY Weight g	PITUITARY %FBW	PITUITARY %Brain	SPLEEN Weight g	SPLEEN %FBW	SPLEEN %Brain	OVARY LEFT Weight g	OVARY LEFT %FBW	OVARY LEFT %Brain
1551	291	1.4593	0.0050	0.7494	0.0141	0.0000	0.0072	0.5552	0.0019	0.2851	0.0618	0.0002	0.0317
1552	310	1.6025	0.0052	0.8232	0.0127	0.0000	0.0065	0.6061	0.0020	0.3114	0.0941	0.0003	0.0483
1553	279	1.4655	0.0053	0.7399	0.0128	0.0000	0.0065	0.5029	0.0018	0.2539	0.0566	0.0002	0.0286
1554	383	1.9527	0.0051	0.9496	0.0077	0.0000	0.0037	0.6753	0.0018	0.3284	0.0616	0.0002	0.0300
1555	312	1.5330	0.0049	0.7600	0.0101	0.0000	0.0050	0.5529	0.0018	0.2741	0.0628	0.0002	0.0311
1556	320	1.5491	0.0048	0.7688	0.0136	0.0000	0.0067	0.5244	0.0016	0.2603	0.0355	0.0001	0.0176
1557	324	1.8713	0.0058	0.9401	0.0134	0.0000	0.0067	0.6193	0.0019	0.3111	0.0491	0.0002	0.0247
1558	307	1.6434	0.0054	0.7679	0.0180	0.0001	0.0084	0.7868	0.0026	0.3677	0.0580	0.0002	0.0271
1559	312	1.4833	0.0048	0.7487	0.0161	0.0001	0.0081	0.7138	0.0023	0.3603	0.0686	0.0002	0.0346
1560	317	1.3964	0.0044	0.7162	0.0176	0.0001	0.0090	0.5870	0.0018	0.3011	0.0466	0.0001	0.0239
1561	345	1.6343	0.0047	0.8322	0.0158	0.0000	0.0080	0.5862	0.0017	0.2985	0.0767	0.0002	0.0391
1562	312	1.5518	0.0050	0.7737	0.0153	0.0000	0.0076	0.6857	0.0022	0.3419	0.0572	0.0002	0.0285
1563	300	1.5832	0.0053	0.8406	0.0136	0.0000	0.0072	0.5635	0.0019	0.2992	0.0344	0.0001	0.0183
1564	353	1.7603	0.0050	0.8226	0.0188	0.0001	0.0088	0.7440	0.0021	0.3477	0.0645	0.0002	0.0301
1565	318	1.5272	0.0048	0.8030	0.0150	0.0000	0.0079	0.4989	0.0016	0.2623	0.0484	0.0002	0.0254
1566	333	1.5957	0.0048	0.7946	0.0212	0.0001	0.0106	0.7034	0.0021	0.3503	0.0689	0.0002	0.0343
1567	303	1.6174	0.0053	0.8174	0.0179	0.0001	0.0090	0.6024	0.0020	0.3044	0.0580	0.0002	0.0293
1568	284	1.5209	0.0054	0.7909	0.0127	0.0000	0.0066	0.6087	0.0021	0.3165	0.0566	0.0002	0.0294
1569	365	1.6826	0.0046	0.8350	0.0133	0.0000	0.0066	0.7974	0.0022	0.3957	0.0672	0.0002	0.0333
1570	327	1.5627	0.0048	0.8037	0.0143	0.0000	0.0074	0.9455	0.0029	0.4863	0.0445	0.0001	0.0229
1571	318	1.4919	0.0047	0.7355	0.0179	0.0001	0.0088	0.6262	0.0020	0.3087	0.0371	0.0001	0.0183
1572	355	1.6360	0.0046	0.7926	0.0179	0.0001	0.0087	0.6090	0.0017	0.2950	0.0704	0.0002	0.0341
1573	385	2.0042	0.0052	0.9385	0.0170	0.0000	0.0080	0.7847	0.0020	0.3674	0.0789	0.0002	0.0369
1574	323	1.5588	0.0048	0.7577	0.0180	0.0001	0.0087	0.7158	0.0022	0.3479	0.0567	0.0002	0.0276
1575	302	1.4864	0.0049	0.7181	0.0140	0.0000	0.0068	0.5412	0.0018	0.2615	0.0514	0.0002	0.0248

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	LUNGS %FBW	LUNGS %Brain	PITUITARY Weight g	PITUITARY %FBW	PITUITARY %Brain	SPLEEN Weight g	SPLEEN %FBW	SPLEEN %Brain	OVARY LEFT Weight g	OVARY LEFT %FBW	OVARY LEFT %Brain
2551	331	1.4748	0.0045	0.7259	0.0163	0.0000	0.0080	0.7268	0.0022	0.3577	0.0617	0.0002	0.0304
2552	344	1.7018	0.0049	0.7964	0.0170	0.0000	0.0080	0.7586	0.0022	0.3550	0.0667	0.0002	0.0312
2553	280	1.4440	0.0052	0.7586	0.0130	0.0000	0.0068	0.6807	0.0024	0.3576	0.0525	0.0002	0.0276
2554	345	1.5819	0.0046	0.7615	0.0141	0.0000	0.0068	0.7499	0.0022	0.3610	0.0611	0.0002	0.0294
2555	349	1.8983	0.0054	0.8626	0.0163	0.0000	0.0074	0.7089	0.0020	0.3221	0.0561	0.0002	0.0255
2556	287	1.3286	0.0046	0.6655	0.0159	0.0001	0.0080	0.6387	0.0022	0.3199	0.0510	0.0002	0.0255
2557	314	1.5174	0.0048	0.7176	0.0062	0.0000	0.0029	0.5265	0.0017	0.2490	0.0545	0.0002	0.0258
2558	336	1.7083	0.0051	0.8098	0.0166	0.0000	0.0079	0.5920	0.0018	0.2806	0.0869	0.0003	0.0412
2559	320	1.6720	0.0052	0.8636	0.0162	0.0001	0.0084	0.5902	0.0018	0.3048	0.0508	0.0002	0.0262
2560	314	1.5672	0.0050	0.7951	0.0138	0.0000	0.0070	0.7443	0.0024	0.3776	0.0509	0.0002	0.0258
2561	312	1.6347	0.0052	0.8222	0.0135	0.0000	0.0068	0.6913	0.0022	0.3477	0.0369	0.0001	0.0186
2562	292	1.5144	0.0052	0.7506	0.0143	0.0000	0.0071	0.6954	0.0024	0.3447	0.0362	0.0001	0.0179
2563	338	1.6267	0.0048	0.8259	0.0141	0.0000	0.0072	0.5446	0.0016	0.2765	0.0523	0.0002	0.0266
2564	292	1.5288	0.0052	0.7687	0.0151	0.0001	0.0076	0.5210	0.0018	0.2620	0.0612	0.0002	0.0308
2565	301	1.5817	0.0053	0.8655	0.0149	0.0000	0.0082	0.5114	0.0017	0.2799	0.0498	0.0002	0.0273
2567	335	1.6040	0.0048	0.7624	0.0170	0.0001	0.0081	0.6546	0.0020	0.3111	0.0584	0.0002	0.0278
2568	304	1.4867	0.0049	0.7510	0.0172	0.0001	0.0087	0.5440	0.0018	0.2748	0.0589	0.0002	0.0298
2569	312	1.6102	0.0052	0.8488	0.0156	0.0001	0.0082	0.7580	0.0024	0.3996	0.0779	0.0002	0.0411
2570	318	1.7432	0.0055	0.7930	0.0112	0.0000	0.0051	0.6943	0.0022	0.3158	0.0703	0.0002	0.0320
2571	329	1.7045	0.0052	0.8526	0.0145	0.0000	0.0073	0.6604	0.0020	0.3303	0.0520	0.0002	0.0260
2572	330	1.5846	0.0048	0.7811	0.0190	0.0001	0.0094	0.7410	0.0022	0.3653	0.0526	0.0002	0.0259
2573	330	1.5320	0.0046	0.7766	0.0149	0.0000	0.0076	0.7920	0.0024	0.4015	0.0477	0.0001	0.0242
2574	389	1.8383	0.0047	0.8673	0.0159	0.0000	0.0075	0.7103	0.0018	0.3351	0.0614	0.0002	0.0290
2575	363	1.7589	0.0048	0.8367	0.0158	0.0000	0.0075	0.5776	0.0016	0.2748	0.0617	0.0002	0.0294
2576	304	1.4085	0.0046	0.7319	0.0123	0.0000	0.0064	0.6765	0.0022	0.3515	0.0506	0.0002	0.0263

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	LUNGS %FBW	LUNGS %Brain	PITUITARY Weight g	PITUITARY %FBW	PITUITARY %Brain	SPLEEN Weight g	SPLEEN %FBW	SPLEEN %Brain	OVARY LEFT Weight g	OVARY LEFT %FBW	OVARY LEFT %Brain
3551	294	1.8118	0.0062	0.8343	0.0158	0.0001	0.0073	0.7655	0.0026	0.3525	0.0616	0.0002	0.0284
3553	364	1.5104	0.0041	0.7420	0.0138	0.0000	0.0068	0.6029	0.0017	0.2962	0.0525	0.0001	0.0258
3554	300	1.4712	0.0049	0.7827	0.0137	0.0000	0.0073	0.5211	0.0017	0.2772	0.0363	0.0001	0.0193
3555	286	1.5089	0.0053	0.7418	0.0131	0.0000	0.0064	0.6516	0.0023	0.3203	0.0693	0.0002	0.0341
3556	319	1.5205	0.0048	0.7562	0.0182	0.0001	0.0091	0.6297	0.0020	0.3132	0.0589	0.0002	0.0293
3557	330	1.9601	0.0059	0.9054	0.0157	0.0000	0.0073	1.3063	0.0040	0.6034	0.0877	0.0003	0.0405
3558	285	1.4249	0.0050	0.7187	0.0144	0.0001	0.0073	0.6437	0.0023	0.3247	0.0519	0.0002	0.0262
3559	326	1.7033	0.0052	0.8523	0.0169	0.0001	0.0085	0.6765	0.0021	0.3385	0.0565	0.0002	0.0283
3560	321	1.7542	0.0055	0.8354	0.0120	0.0000	0.0057	0.6797	0.0021	0.3237	0.1087	0.0003	0.0518
3561	301	1.4618	0.0049	0.7504	0.0158	0.0001	0.0081	0.6451	0.0021	0.3311	0.0671	0.0002	0.0344
3562	338	1.8574	0.0055	0.8821	0.0141	0.0000	0.0067	0.7584	0.0022	0.3602	0.0829	0.0002	0.0394
3563	300	1.6701	0.0056	0.8964	0.0108	0.0000	0.0058	0.5963	0.0020	0.3200	0.0531	0.0002	0.0285
3564	275	1.4508	0.0053	0.6916	0.0143	0.0001	0.0068	0.5958	0.0022	0.2840	0.0453	0.0002	0.0216
3565	263	1.3736	0.0052	0.6664	0.0135	0.0001	0.0065	0.5645	0.0022	0.2739	0.0520	0.0002	0.0252
3566	266	1.3823	0.0052	0.7111	0.0137	0.0001	0.0070	0.6294	0.0024	0.3238	0.0412	0.0002	0.0212
3567	288	1.4414	0.0050	0.6972	0.0154	0.0001	0.0074	0.7138	0.0025	0.3452	0.0566	0.0002	0.0274
3568	303	1.4028	0.0046	0.7508	0.0175	0.0001	0.0094	0.5804	0.0019	0.3107	0.0513	0.0002	0.0275
3569	334	1.5318	0.0046	0.7325	0.0153	0.0000	0.0073	0.6621	0.0020	0.3166	0.0555	0.0002	0.0265
3570	346	1.5526	0.0045	0.7920	0.0154	0.0000	0.0079	0.8503	0.0025	0.4338	0.0660	0.0002	0.0337
3571	339	1.7527	0.0052	0.8637	0.0132	0.0000	0.0065	0.6663	0.0020	0.3283	0.0381	0.0001	0.0188
3572	325	1.7533	0.0054	0.9200	0.0170	0.0001	0.0089	0.7179	0.0022	0.3767	0.0587	0.0002	0.0308
3573	367	2.0035	0.0055	0.8955	0.0166	0.0000	0.0074	0.8608	0.0023	0.3848	0.1067	0.0003	0.0477
3574	328	1.6534	0.0050	0.8023	0.0150	0.0000	0.0073	0.7574	0.0023	0.3675	0.0479	0.0001	0.0232
3575	320	1.4174	0.0044	0.7363	0.0146	0.0000	0.0076	0.6757	0.0021	0.3510	0.0428	0.0001	0.0222
3576	294	1.4674	0.0050	0.7526	0.0138	0.0000	0.0071	0.5760	0.0020	0.2954	0.0786	0.0003	0.0403

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

Huntingdon Life Sciences 00-4203

APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 Weight g	LUNGS %FBW	LUNGS %Brain	PITUITARY Weight g	PITUITARY %FBW	PITUITARY %Brain	SPLEEN Weight g	SPLEEN %FBW	SPLEEN %Brain	OVARY LEFT Weight g	OVARY LEFT %FBW	OVARY LEFT %Brain
4551	328	1.4503	0.0044	0.6870	0.0169	0.0001	0.0080	0.6024	0.0018	0.2853	0.0431	0.0001	0.0204
4552	324	1.5720	0.0049	0.7710	0.0184	0.0001	0.0090	0.7639	0.0024	0.3746	0.0624	0.0002	0.0306
4553	273	1.4875	0.0055	0.6654	0.0157	0.0001	0.0070	0.5121	0.0019	0.2291	0.0570	0.0002	0.0255
4554	320	1.7404	0.0054	0.8402	0.0207	0.0001	0.0100	0.8557	0.0027	0.4131	0.0665	0.0002	0.0321
4555	312	1.3996	0.0045	0.6777	0.0120	0.0000	0.0058	0.6104	0.0020	0.2956	0.0608	0.0002	0.0294
4556	307	1.4267	0.0047	0.7350	0.0167	0.0001	0.0086	0.5234	0.0017	0.2697	0.0551	0.0002	0.0284
4557	297	1.6379	0.0055	0.7985	0.0134	0.0000	0.0065	0.7592	0.0026	0.3701	0.0552	0.0002	0.0269
4558	353	1.9231	0.0055	0.9590	0.0135	0.0000	0.0067	0.7851	0.0022	0.3915	0.0976	0.0003	0.0487
4559	285	1.2864	0.0045	0.6661	0.0152	0.0001	0.0079	0.5773	0.0020	0.2989	0.0619	0.0002	0.0321
4560	334	1.5664	0.0047	0.7835	0.0166	0.0000	0.0083	0.7159	0.0021	0.3581	0.0578	0.0002	0.0289
4561	298	1.5392	0.0052	0.7819	0.0126	0.0000	0.0064	0.7053	0.0024	0.3583	0.0641	0.0002	0.0326
4562	321	1.9523	0.0061	0.9351	0.0188	0.0001	0.0090	0.7264	0.0023	0.3479	0.0685	0.0002	0.0328
4563	310	1.8733	0.0061	0.9728	0.0118	0.0000	0.0061	0.6926	0.0022	0.3597	0.0609	0.0002	0.0316
4564	372	2.2225	0.0060	0.9323	0.0201	0.0001	0.0084	0.8814	0.0024	0.3697	0.0630	0.0002	0.0264
4566	294	1.4990	0.0051	0.7399	0.0171	0.0001	0.0084	0.6004	0.0020	0.2964	0.0581	0.0002	0.0287
4567	291	1.5130	0.0052	0.7231	0.0154	0.0001	0.0074	0.6960	0.0024	0.3326	0.0616	0.0002	0.0294
4568	280	1.4438	0.0052	0.7693	0.0142	0.0001	0.0076	0.4853	0.0017	0.2586	0.0413	0.0001	0.0220
4569	303	1.4286	0.0047	0.7568	0.0180	0.0001	0.0095	0.6039	0.0020	0.3199	0.0575	0.0002	0.0305
4570	323	1.4871	0.0046	0.7298	0.0105	0.0000	0.0052	0.5789	0.0018	0.2841	0.0485	0.0002	0.0238
4571	305	1.7440	0.0057	0.8077	0.0187	0.0001	0.0087	0.7038	0.0023	0.3259	0.0606	0.0002	0.0281
4572	322	1.5663	0.0049	0.7700	0.0119	0.0000	0.0059	0.6643	0.0021	0.3266	0.0510	0.0002	0.0251
4573	336	1.5035	0.0045	0.7363	0.0149	0.0000	0.0073	0.5157	0.0015	0.2526	0.0569	0.0002	0.0279
4574	304	1.8079	0.0060	0.9129	0.0171	0.0001	0.0086	0.6545	0.0022	0.3305	0.0833	0.0003	0.0421
4575	322	1.5108	0.0047	0.7384	0.0173	0.0001	0.0085	0.5869	0.0018	0.2869	0.0548	0.0002	0.0268
4576	323	1.4291	0.0044	0.6933	0.0173	0.0001	0.0084	0.5239	0.0016	0.2541	0.0638	0.0002	0.0309

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 RIGHT Weight g	OVARY RIGHT %FBW	OVARY RIGHT %Brain	OVARIES Weight g	OVARIES %FBW	OVARIES %Brain	UTERUS/OVIDUCTS Weight g	UTERUS/OVIDUCTS %FBW	UTERUS/OVIDUCTS %Brain
1551	291	0.0514	0.0002	0.0264	0.1102	0.0004	0.0566	0.4256	0.0015	0.2186
1552	310	0.0817	0.0003	0.0420	0.1736	0.0006	0.0892	0.6529	0.0021	0.3354
1553	279	0.0543	0.0002	0.0274	0.1077	0.0004	0.0544	0.8795	0.0032	0.4441
1554	383	0.0501	0.0001	0.0244	0.1107	0.0003	0.0538	0.5939	0.0016	0.2888
1555	312	0.0628	0.0002	0.0311	0.1257	0.0004	0.0623	0.6289	0.0020	0.3118
1556	320	0.0502	0.0002	0.0249	0.0857	0.0003	0.0425	0.6856	0.0021	0.3403
1557	324	0.0596	0.0002	0.0299	0.1065	0.0003	0.0535	0.6043	0.0019	0.3036
1558	307	0.0498	0.0002	0.0233	0.1103	0.0004	0.0515	0.6345	0.0021	0.2965
1559	312	0.0562	0.0002	0.0284	0.1253	0.0004	0.0632	0.6747	0.0022	0.3406
1560	317	0.0467	0.0001	0.0240	0.0944	0.0003	0.0484	0.4290	0.0014	0.2200
1561	345	0.0617	0.0002	0.0314	0.1324	0.0004	0.0674	0.5426	0.0016	0.2763
1562	312	0.0430	0.0001	0.0214	0.1007	0.0003	0.0502	0.7909	0.0025	0.3943
1563	300	0.0433	0.0001	0.0230	0.0783	0.0003	0.0416	0.9480	0.0032	0.5033
1564	353	0.0600	0.0002	0.0280	0.1237	0.0004	0.0578	0.8565	0.0024	0.4003
1565	318	0.0460	0.0001	0.0242	0.0955	0.0003	0.0502	0.6862	0.0022	0.3608
1566	333	0.0867	0.0003	0.0432	0.1558	0.0005	0.0776	1.1913	0.0036	0.5932
1567	303	0.0481	0.0002	0.0243	0.1075	0.0004	0.0543	0.8783	0.0029	0.4439
1568	284	0.0432	0.0002	0.0225	0.0988	0.0003	0.0514	0.4516	0.0016	0.2348
1569	365	0.0439	0.0001	0.0218	0.1099	0.0003	0.0545	0.5910	0.0016	0.2933
1570	327	0.0672	0.0002	0.0346	0.1128	0.0003	0.0580	0.5338	0.0016	0.2745
1571	318	0.0564	0.0002	0.0278	0.0924	0.0003	0.0456	0.9464	0.0030	0.4666
1572	355	0.0597	0.0002	0.0289	0.1295	0.0004	0.0627	0.9866	0.0028	0.4780
1573	385	0.0516	0.0001	0.0242	0.1241	0.0003	0.0581	0.6936	0.0018	0.3248
1574	323	0.0574	0.0002	0.0279	0.1147	0.0004	0.0557	0.7832	0.0024	0.3807
1575	302	0.0550	0.0002	0.0266	0.1055	0.0003	0.0510	0.7077	0.0023	0.3419

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 RIGHT Weight g	OVARY RIGHT %FBW	OVARY RIGHT %Brain	OVARIES Weight g	OVARIES %FBW	OVARIES %Brain	UTERUS/OVIDUCTS Weight g	UTERUS/OVIDUCTS %FBW	UTERUS/OVIDUCTS %Brain
2551	331	0.0651	0.0002	0.0320	0.1272	0.0004	0.0626	0.5674	0.0017	0.2793
2552	344	0.0518	0.0002	0.0242	0.1195	0.0003	0.0559	0.7252	0.0021	0.3394
2553	280	0.0481	0.0002	0.0253	0.1006	0.0004	0.0528	0.4223	0.0015	0.2218
2554	345	0.0608	0.0002	0.0293	0.1179	0.0003	0.0568	0.6980	0.0020	0.3360
2555	349	0.0547	0.0002	0.0249	0.1108	0.0003	0.0503	0.7280	0.0021	0.3308
2556	287	0.0422	0.0001	0.0211	0.0939	0.0003	0.0470	0.6458	0.0023	0.3235
2557	314	0.0448	0.0001	0.0212	0.0982	0.0003	0.0464	0.5193	0.0017	0.2456
2558	336	0.0516	0.0002	0.0245	0.1328	0.0004	0.0630	0.7941	0.0024	0.3764
2559	320	0.0561	0.0002	0.0290	0.1076	0.0003	0.0556	1.0865	0.0034	0.5612
2560	314	0.0561	0.0002	0.0285	0.1072	0.0003	0.0544	0.7415	0.0024	0.3762
2561	312	0.0693	0.0002	0.0349	0.1035	0.0003	0.0521	0.6798	0.0022	0.3419
2562	292	0.0576	0.0002	0.0285	0.0918	0.0003	0.0455	0.6452	0.0022	0.3198
2563	338	0.0779	0.0002	0.0396	0.1233	0.0004	0.0626	0.4996	0.0015	0.2537
2564	292	0.0532	0.0002	0.0267	0.1146	0.0004	0.0576	0.4515	0.0015	0.2270
2565	301	0.0468	0.0002	0.0256	0.1001	0.0003	0.0548	0.6094	0.0020	0.3335
2567	335	0.0607	0.0002	0.0289	0.1189	0.0004	0.0565	0.9116	0.0027	0.4333
2568	304	0.0616	0.0002	0.0311	0.1200	0.0004	0.0606	0.9467	0.0031	0.4782
2569	312	0.0584	0.0002	0.0308	0.1353	0.0004	0.0713	0.6067	0.0019	0.3198
2570	318	0.0647	0.0002	0.0294	0.1357	0.0004	0.0617	0.7404	0.0023	0.3368
2571	329	0.0606	0.0002	0.0303	0.1121	0.0003	0.0561	0.7472	0.0023	0.3737
2572	330	0.0575	0.0002	0.0283	0.1077	0.0003	0.0531	0.5934	0.0018	0.2925
2573	330	0.0422	0.0001	0.0214	0.0901	0.0003	0.0457	0.5169	0.0016	0.2620
2574	389	0.0571	0.0001	0.0269	0.1170	0.0003	0.0552	0.6616	0.0017	0.3121
2575	363	0.0608	0.0002	0.0289	0.1213	0.0003	0.0577	0.6089	0.0017	0.2896
2576	304	0.0572	0.0002	0.0297	0.1055	0.0003	0.0548	0.7714	0.0025	0.4009

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 RIGHT Weight g	OVARY RIGHT %FBW	OVARY RIGHT %Brain	OVARIES Weight g	OVARIES %FBW	OVARIES %Brain	UTERUS/OVIDUCTS Weight g	UTERUS/OVIDUCTS %FBW	UTERUS/OVIDUCTS %Brain
3551	294	0.0259	0.0001	0.0119	0.0860	0.0003	0.0396	0.9845	0.0034	0.4533
3553	364	0.0530	0.0001	0.0260	0.1051	0.0003	0.0516	0.9668	0.0027	0.4749
3554	300	0.0509	0.0002	0.0271	0.0884	0.0003	0.0470	0.7739	0.0026	0.4117
3555	286	0.0641	0.0002	0.0315	0.1316	0.0005	0.0647	0.6002	0.0021	0.2951
3556	319	0.0453	0.0001	0.0225	0.0960	0.0003	0.0477	0.9997	0.0031	0.4972
3557	330	0.0625	0.0002	0.0289	0.1390	0.0004	0.0642	0.5713	0.0017	0.2639
3558	285	0.0493	0.0002	0.0249	0.1011	0.0004	0.0510	0.8490	0.0030	0.4282
3559	326	0.0612	0.0002	0.0306	0.1180	0.0004	0.0590	1.0570	0.0032	0.5289
3560	321	0.0658	0.0002	0.0313	0.1668	0.0005	0.0794	0.5359	0.0017	0.2552
3561	301	0.0714	0.0002	0.0367	0.1324	0.0004	0.0680	0.5717	0.0019	0.2935
3562	338	0.0610	0.0002	0.0290	0.1309	0.0004	0.0622	0.6436	0.0019	0.3056
3563	300	0.0630	0.0002	0.0338	0.1177	0.0004	0.0632	0.4437	0.0015	0.2381
3564	275	0.0443	0.0002	0.0211	0.0902	0.0003	0.0430	0.9397	0.0034	0.4480
3565	263	0.0429	0.0002	0.0208	0.0839	0.0003	0.0407	0.6689	0.0025	0.3245
3566	266	0.0542	0.0002	0.0279	0.0951	0.0004	0.0489	0.6080	0.0023	0.3128
3567	288	0.0413	0.0001	0.0200	0.0962	0.0003	0.0465	1.5058	0.0052	0.7283
3568	303	0.0677	0.0002	0.0362	0.1187	0.0004	0.0635	0.4686	0.0015	0.2508
3569	334	0.1262	0.0004	0.0603	0.1269	0.0004	0.0607	0.4564	0.0014	0.2182
3570	346	0.0609	0.0002	0.0311	0.1271	0.0004	0.0648	0.4936	0.0014	0.2518
3571	339	0.0504	0.0001	0.0248	0.0874	0.0003	0.0431	0.4246	0.0013	0.2092
3572	325	0.0611	0.0002	0.0321	0.1193	0.0004	0.0626	0.8595	0.0026	0.4510
3573	367	0.0426	0.0001	0.0190	0.1341	0.0004	0.0599	0.6427	0.0017	0.2873
3574	328	0.0553	0.0002	0.0268	0.0961	0.0003	0.0466	0.5129	0.0016	0.2489
3575	320	0.0609	0.0002	0.0316	0.1034	0.0003	0.0537	0.7605	0.0024	0.3951
3576	294	0.0707	0.0002	0.0363	0.1490	0.0005	0.0764	0.8128	0.0028	0.4168

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

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APPENDIX X P0 GENERATION

GASOLINE ETHANOL 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 RIGHT Weight g	OVARY RIGHT %FBW	OVARY RIGHT %Brain	OVARIES Weight g	OVARIES %FBW	OVARIES %Brain	UTERUS/OVIDUCTS Weight g	UTERUS/OVIDUCTS %FBW	UTERUS/OVIDUCTS %Brain
4551	328	0.0499	0.0002	0.0236	0.0924	0.0003	0.0438	0.5224	0.0016	0.2474
4552	324	0.0602	0.0002	0.0295	0.1232	0.0004	0.0604	0.9175	0.0028	0.4500
4553	273	0.0482	0.0002	0.0216	0.0948	0.0003	0.0424	1.2209	0.0045	0.5462
4554	320	0.0537	0.0002	0.0259	0.1208	0.0004	0.0583	0.7625	0.0024	0.3681
4555	312	0.0666	0.0002	0.0322	0.1303	0.0004	0.0631	0.6221	0.0020	0.3012
4556	307	0.0706	0.0002	0.0364	0.1255	0.0004	0.0647	0.8257	0.0027	0.4254
4557	297	0.0433	0.0001	0.0211	0.0983	0.0003	0.0479	0.6197	0.0021	0.3021
4558	353	0.0584	0.0002	0.0291	0.1515	0.0004	0.0755	0.6414	0.0018	0.3198
4559	285	0.0698	0.0002	0.0361	0.1322	0.0005	0.0685	0.6958	0.0024	0.3603
4560	334	0.0603	0.0002	0.0302	0.1172	0.0004	0.0586	0.5986	0.0018	0.2994
4561	298	0.0504	0.0002	0.0256	0.1138	0.0004	0.0578	1.1724	0.0039	0.5956
4562	321	0.0633	0.0002	0.0303	0.1145	0.0004	0.0548	1.0260	0.0032	0.4914
4563	310	0.0537	0.0002	0.0279	0.1143	0.0004	0.0594	0.5139	0.0017	0.2669
4564	372	0.0550	0.0001	0.0231	0.1100	0.0003	0.0461	0.7123	0.0019	0.2988
4566	294	0.0526	0.0002	0.0260	0.1113	0.0004	0.0549	0.6614	0.0023	0.3265
4567	291	0.0452	0.0002	0.0216	0.1074	0.0004	0.0513	0.5426	0.0019	0.2593
4568	280	0.0412	0.0001	0.0220	0.0826	0.0003	0.0440	0.4906	0.0018	0.2614
4569	303	0.0562	0.0002	0.0298	0.1141	0.0004	0.0604	0.8194	0.0027	0.4341
4570	323	0.0654	0.0002	0.0321	0.1105	0.0003	0.0542	0.5581	0.0017	0.2739
4571	305	0.0397	0.0001	0.0184	0.0901	0.0003	0.0417	1.2721	0.0042	0.5891
4572	322	0.0693	0.0002	0.0341	0.1204	0.0004	0.0592	0.5080	0.0016	0.2497
4573	336	0.0495	0.0001	0.0242	0.1068	0.0003	0.0523	0.5667	0.0017	0.2775
4574	304	0.0726	0.0002	0.0367	0.1528	0.0005	0.0772	0.6419	0.0021	0.3241
4575	322	0.0446	0.0001	0.0218	0.0996	0.0003	0.0487	0.5898	0.0018	0.2883
4576	323	0.0699	0.0002	0.0339	0.1335	0.0004	0.0648	0.7345	0.0023	0.3563

%FBW = ORGAN WEIGHT/BODY WEIGHT %Brain = ORGAN WEIGHT/BRAIN WEIGHT

	Individual Pup Organ Weights Preface	Appendix Y

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Key to Abbreviations:

g = Grams

Corresponding exposure levels for each group were as follows:

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

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
1551	2	M	83.2	1.6654	2.0017	0.3258	0.3916	0.4996	0.6005
	6	F	71.0	1.5644	2.2034	0.2761	0.3889	0.4648	0.6546
1552	2	M	76.0	1.5643	2.0583	0.3320	0.4368	0.2877	0.3786
	16	F	70.5	1.5252	2.1634	0.3026	0.4292	0.2767	0.3925
1553	3	M	78.6	1.5578	1.9819	0.3328	0.4234	0.4066	0.5173
	14	F	73.8	1.5142	2.0518	0.2906	0.3938	0.3483	0.4720
1554	8	M	82.7	1.6550	2.0012	0.2882	0.3485	0.3939	0.4763
	9	F	62.3	1.5013	2.4098	0.1912	0.3069	0.2889	0.4637
1555	2	M	88.6	1.5962	1.8016	0.3579	0.4040	0.3041	0.3432
	9	F	80.1	1.5435	1.9270	0.3149	0.3931	0.3358	0.4192
1556	2	M	74.5	1.5719	2.1099	0.2671	0.3585	0.3343	0.4487
	9	F	70.0	1.5608	2.2297	0.2788	0.3983	0.3197	0.4567
1557	2	M	74.1	1.6335	2.2045	0.2807	0.3788	0.3267	0.4409
	11	F	75.8	1.6695	2.2025	0.2872	0.3789	0.3776	0.4982
1558	2	M	87.0	1.6966	1.9501	0.3826	0.4398	0.3403	0.3911
	8	F	75.8	1.5029	1.9827	0.3415	0.4505	0.3415	0.4505
1559	2	M	77.4	1.6054	2.0742	0.3272	0.4227	0.6791	0.8774
	13	F	78.6	1.5769	2.0062	0.3055	0.3887	0.3852	0.4901
1560	3	M	83.4	1.6855	2.0210	0.4037	0.4841	0.3796	0.4552
	8	F	77.0	1.7194	2.2330	0.4036	0.5242	0.3846	0.4995
1561	3	M	85.3	1.6925	1.9842	0.3326	0.3899	0.3755	0.4402
	15	F	78.4	1.4903	1.9009	0.2996	0.3821	0.3905	0.4981
1562	9	M	80.2	1.6609	2.0709	0.3904	0.4868	0.2945	0.3672

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
1562	(continued)								
	15	F	76.3	1.5942	2.0894	0.3062	0.4013	0.3208	0.4204
1563	1	M	69.5	1.5066	2.1678	0.2897	0.4168	0.2657	0.3823
	8	F	59.7	1.4740	2.4690	0.2981	0.4993	0.2640	0.4422
1564	2	M	104.0	1.6525	1.5889	0.4218	0.4056	0.4035	0.3880
	8	F	91.3	1.6583	1.8163	0.4281	0.4689	0.3785	0.4146
1565	1	M	74.3	1.5551	2.0930	0.2571	0.3460	0.3033	0.4082
	8	F	73.7	1.5264	2.0711	0.1974	0.2678	0.3124	0.4239
1566	4	M	80.9	1.5714	1.9424	0.3790	0.4685	0.3684	0.4554
	10	F	84.7	1.5773	1.8622	0.3282	0.3875	0.4048	0.4779
1567	4	M	79.2	1.4811	1.8701	0.2973	0.3754	0.2988	0.3773
	12	F	76.5	1.5866	2.0740	0.3099	0.4051	0.3178	0.4154
1568	1	M	79.1	1.6509	2.0871	0.3999	0.5056	0.4050	0.5120
	7	F	76.6	1.5321	2.0001	0.3622	0.4728	0.3399	0.4437
1569	6	M	79.3	1.5156	1.9112	0.3536	0.4459	0.3079	0.3883
	7	F	73.2	1.4644	2.0005	0.2669	0.3646	0.3046	0.4161
1570	1	M	83.6	1.6039	1.9185	0.3899	0.4664	0.3953	0.4728
	13	F	73.8	1.5156	2.0537	0.2937	0.3980	0.3305	0.4478
1571	1	M	80.3	1.5150	1.8867	0.3709	0.4619	0.2543	0.3167
	9	F	71.2	1.4659	2.0588	0.3305	0.4642	0.3304	0.4640
1572	7	M	89.5	1.6695	1.8654	0.3185	0.3559	0.4634	0.5178
	15	F	82.3	1.5565	1.8913	0.3874	0.4707	0.3645	0.4429
1573	4	M	83.8	1.5418	1.8399	0.3977	0.4746	0.3993	0.4765
	13	F	74.7	1.5017	2.0103	0.2770	0.3708	0.4190	0.5609

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
1574	5	M	87.5	1.7224	1.9685	0.3984	0.4553	0.3119	0.3565
	10	F	78.5	1.5770	2.0089	0.3165	0.4032	0.3380	0.4306
1575	5	M	83.6	1.7248	2.0632	0.3189	0.3815	0.3833	0.4585
	9	F	72.6	1.5671	2.1585	0.2141	0.2949	0.3095	0.4263

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
2551	1	M	85.4	1.6074	1.8822	0.4108	0.4810	0.3541	0.4146
	12	F	81.0	1.5322	1.8916	0.4204	0.5190	0.3828	0.4726
2552	5	M	86.7	1.6306	1.8807	0.3724	0.4295	0.3322	0.3832
	14	F	73.9	1.3855	1.8748	0.3219	0.4356	0.3454	0.4674
2553	3	M	78.8	1.6027	2.0339	0.3333	0.4230	0.3420	0.4340
	14	F	68.9	1.5213	2.2080	0.2588	0.3756	0.3339	0.4846
2554	1	M	80.4	1.6716	2.0791	0.3206	0.3988	0.4250	0.5286
	14	F	77.6	1.5621	2.0130	0.3565	0.4594	0.4316	0.5562
2555	2	M	83.1	1.6839	2.0264	0.3174	0.3819	0.3992	0.4804
	17	F	80.7	1.6400	2.0322	0.3508	0.4347	0.4308	0.5338
2556	4	M	68.3	1.6786	2.4577	0.2640	0.3865	0.2319	0.3395
	10	F	66.3	1.4917	2.2499	0.2588	0.3903	0.2485	0.3748
2557	5	M	76.1	1.5067	1.9799	0.3250	0.4271	0.3270	0.4297
	12	F	73.3	1.4697	2.0050	0.3277	0.4471	0.4139	0.5647
2558	4	M	81.5	1.7370	2.1313	0.2801	0.3437	0.2801	0.3437
	10	F	76.5	1.6546	2.1629	0.2793	0.3651	0.3410	0.4458
2559	4	M	58.7	1.5064	2.5663	0.2488	0.4239	0.2857	0.4867
	7	F	67.6	1.5175	2.2448	0.2975	0.4401	0.3703	0.5478
2560	3	M	88.2	1.6066	1.8215	0.3651	0.4139	0.3258	0.3694
	8	F	78.3	1.5150	1.9349	0.2953	0.3771	0.4068	0.5195
2561	7	M	91.9	1.6192	1.7619	0.3870	0.4211	0.4508	0.4905
	13	F	78.5	1.5998	2.0380	0.2835	0.3611	0.3886	0.4950
2562	3	M	66.5	1.5682	2.3582	0.2689	0.4044	0.3453	0.5192

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
2562	(continued)								
	10	F	65.0	1.5105	2.3238	0.2267	0.3488	0.3934	0.6052
2563	4	M	77.5	1.4870	1.9187	0.3074	0.3966	0.3767	0.4861
	10	F	69.2	1.4633	2.1146	0.2668	0.3855	0.3946	0.5702
2564	1	M	81.2	1.5506	1.9096	0.3345	0.4119	0.3579	0.4408
	11	F	79.9	1.5114	1.8916	0.2456	0.3074	0.4341	0.5433
2565	4	M	88.6	1.5768	1.7797	0.3376	0.3810	0.4110	0.4639
	13	F	76.8	1.5483	2.0160	0.3286	0.4279	0.4230	0.5508
2567	7	M	98.3	1.7004	1.7298	0.3870	0.3937	0.4558	0.4637
	13	F	81.0	1.5446	1.9069	0.2770	0.3420	0.4207	0.5194
2568	5	M	95.1	1.6154	1.6986	0.3412	0.3588	0.3386	0.3560
	10	F	83.0	1.5503	1.8678	0.3232	0.3894	0.4000	0.4819
2569	1	M	81.8	1.5600	1.9071	0.3417	0.4177	0.2677	0.3273
	9	F	68.9	1.5419	2.2379	0.2583	0.3749	0.3577	0.5192
2570	2	M	85.1	1.6303	1.9157	0.3784	0.4447	0.3420	0.4019
	8	F	76.4	1.6090	2.1060	0.2642	0.3458	0.3304	0.4325
2571	3	M	80.3	1.7210	2.1432	0.4164	0.5186	0.4513	0.5620
	12	F	82.8	1.5796	1.9077	0.3196	0.3860	0.3385	0.4088
2572	4	M	92.2	1.6826	1.8249	0.4432	0.4807	0.4244	0.4603
	5	F	80.8	1.6765	2.0749	0.3433	0.4249	0.3853	0.4769
2573	4	M	83.0	1.5820	1.9060	0.3381	0.4073	0.3111	0.3748
	12	F	76.9	1.4788	1.9230	0.3277	0.4261	0.3691	0.4800
2574	9	M	74.5	1.5761	2.1156	0.4341	0.5827	0.3530	0.4738
	14	F	60.6	1.4728	2.4304	0.3153	0.5203	0.2851	0.4705

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
2575	8	M	91.3	1.6842	1.8447	0.3575	0.3916	0.3526	0.3862
	9	F	83.3	1.3836	1.6610	0.3029	0.3636	0.3814	0.4579
2576	3	M	91.6	1.5642	1.7076	0.3532	0.3856	0.4116	0.4493
	8	F	76.3	1.5281	2.0028	0.2682	0.3515	0.3148	0.4126

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
3551	5	M	71.1	1.6063	2.2592	0.3453	0.4857	0.2787	0.3920
	10	F	69.6	1.6722	2.4026	0.3344	0.4805	0.3881	0.5576
3553	3	M	94.1	1.7165	1.8241	0.3569	0.3793	0.2811	0.2987
	9	F	78.7	1.6024	2.0361	0.2738	0.3479	0.3185	0.4047
3554	6	M	74.9	1.6393	2.1887	0.4186	0.5589	0.3390	0.4526
	7	F	70.1	1.5897	2.2678	0.3512	0.5010	0.3643	0.5197
3555	2	M	95.0	1.6888	1.7777	0.3816	0.4017	0.4572	0.4813
	12	F	85.8	1.6523	1.9258	0.2921	0.3404	0.4619	0.5383
3556	1	M	74.7	1.5143	2.0272	0.3085	0.4130	0.3206	0.4292
	13	F	76.0	1.5140	1.9921	0.3148	0.4142	0.2904	0.3821
3557	8	M	76.7	1.5432	2.0120	0.3558	0.4639	0.3125	0.4074
	14	F	70.6	1.4561	2.0625	0.2684	0.3802	0.3288	0.4657
3558	1	M	71.9	1.5547	2.1623	0.3118	0.4337	0.2627	0.3654
	2	F	65.6	1.4945	2.2782	0.2603	0.3968	0.2614	0.3985
3559	6	M	97.7	1.5794	1.6166	0.3714	0.3801	0.4820	0.4933
	12	F	91.6	1.6028	1.7498	0.3963	0.4326	0.4662	0.5090
3560	3	M	82.7	1.6388	1.9816	0.2745	0.3319	0.4392	0.5311
	15	F	76.3	1.6195	2.1225	0.2905	0.3807	0.3887	0.5094
3561	2	M	80.7	1.6029	1.9862	0.2802	0.3472	0.3252	0.4030
	11	F	71.8	1.5264	2.1259	0.2590	0.3607	0.2656	0.3699
3562	7	M	81.5	1.5404	1.8901	0.3465	0.4252	0.3303	0.4053
	12	F	71.9	1.4355	1.9965	0.3282	0.4565	0.2848	0.3961
3563	3	M	87.4	1.6283	1.8630	0.3206	0.3668	0.3902	0.4465

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
3563	(continued)								
	11	F	78.8	1.5774	2.0018	0.3018	0.3830	0.3714	0.4713
3564	1	M	69.1	1.6046	2.3221	0.2335	0.3379	0.2401	0.3475
	12	F	64.9	1.5205	2.3428	0.2587	0.3986	0.3152	0.4857
3565	1	M	73.6	1.5708	2.1342	0.3162	0.4296	0.3853	0.5235
	7	F	69.6	1.6360	2.3506	0.2576	0.3701	0.3336	0.4793
3566	1	M	70.0	1.5478	2.2111	0.3521	0.5030	0.2846	0.4066
	14	F	60.5	1.4365	2.3744	0.2665	0.4405	0.3121	0.5159
3567	3	M	84.8	1.8001	2.1228	0.3722	0.4389	0.3920	0.4623
	12	F	74.6	1.6288	2.1834	0.3439	0.4610	0.4623	0.6197
3568	7	M	70.5	1.5189	2.1545	0.3000	0.4255	0.3234	0.4587
	13	F	64.8	1.4757	2.2773	0.2287	0.3529	0.3821	0.5897
3569	1	M	84.3	1.6026	1.9011	0.3461	0.4106	0.3756	0.4456
	4	F	88.6	1.6825	1.8990	0.3780	0.4266	0.4681	0.5283
3570	5	M	82.3	1.6185	1.9666	0.3885	0.4721	0.3977	0.4832
	11	F	74.6	1.5362	2.0592	0.2912	0.3903	0.3493	0.4682
3571	6	M	77.1	1.5903	2.0626	0.3091	0.4009	0.3853	0.4997
	12	F	73.0	1.5721	2.1536	0.3100	0.4247	0.3489	0.4779
3572	5	M	82.1	1.5618	1.9023	0.3667	0.4467	0.4524	0.5510
	11	F	66.0	1.5250	2.3106	0.2511	0.3805	0.4096	0.6206
3573	4	M	89.0	1.7524	1.9690	0.3119	0.3504	0.3169	0.3561
	5	F	97.1	1.6109	1.6590	0.2952	0.3040	0.4440	0.4573
3574	5	M	86.3	1.5585	1.8059	0.4057	0.4701	0.3840	0.4450
	13	F	80.4	1.6389	2.0384	0.3212	0.3995	0.4224	0.5254

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
3575	3	M	76.9	1.5891	2.0664	0.3293	0.4282	0.3563	0.4633
	12	F	70.6	1.5632	2.2142	0.3782	0.5357	0.3225	0.4568
3576	7	M	75.9	1.5293	2.0149	0.3426	0.4514	0.3471	0.4573
	11	F	71.5	1.5442	2.1597	0.3430	0.4797	0.3618	0.5060

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
4551	4	M	67.6	1.5677	2.3191	0.2725	0.4031	0.3257	0.4818
	12	F	65.2	1.5279	2.3434	0.2926	0.4488	0.3712	0.5693
4552	13	M	92.5	1.6952	1.8326	0.3615	0.3908	0.4154	0.4491
	17	F	85.7	1.5949	1.8610	0.3641	0.4249	0.4512	0.5265
4553	1	M	70.8	1.4483	2.0456	0.2482	0.3506	0.4554	0.6432
	8	F	66.8	1.4636	2.1910	0.2478	0.3710	0.4300	0.6437
4554	3	M	84.0	1.5816	1.8829	0.3660	0.4357	0.3631	0.4323
	11	F	86.1	1.5654	1.8181	0.4218	0.4899	0.3088	0.3587
4555	8	M	72.9	1.6308	2.2370	0.2916	0.4000	0.2872	0.3940
	14	F	61.2	1.5798	2.5814	0.2593	0.4237	0.3288	0.5373
4556	1	M	90.6	1.6338	1.8033	0.3291	0.3632	0.3567	0.3937
	11	F	85.0	1.5861	1.8660	0.2821	0.3319	0.3470	0.4082
4557	7	M	70.2	1.5301	2.1796	0.3209	0.4571	0.2892	0.4120
	11	F	69.8	1.4909	2.1360	0.2724	0.3903	0.3843	0.5506
4558	6	M	72.3	1.5585	2.1556	0.3754	0.5192	0.3575	0.4945
	12	F	66.4	1.5548	2.3416	0.2793	0.4206	0.3018	0.4545
4559	5	M	77.5	1.6611	2.1434	0.4214	0.5437	0.3550	0.4581
	13	F	74.2	1.5193	2.0476	0.3056	0.4119	0.3258	0.4391
4560	3	M	77.4	1.5916	2.0563	0.4096	0.5292	0.3701	0.4782
	14	F	73.0	1.5014	2.0567	0.3325	0.4555	0.3585	0.4911
4561	1	M	85.0	1.6327	1.9208	0.3059	0.3599	0.3968	0.4668
	11	F	65.6	1.4445	2.2020	0.2273	0.3465	0.2760	0.4207
4562	6	M	79.7	1.5645	1.9630	0.3426	0.4299	0.2960	0.3714

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
4562	(continued)								
	10	F	73.7	1.4668	1.9902	0.2235	0.3033	0.2366	0.3210
4563	2	M	81.6	1.5232	1.8667	0.4232	0.5186	0.2871	0.3518
	12	F	78.4	1.5194	1.9380	0.4081	0.5205	0.3310	0.4222
4564	7	M	89.5	1.6800	1.8771	0.3553	0.3970	0.4741	0.5297
	13	F	76.4	1.5944	2.0869	0.3068	0.4016	0.4691	0.6140
4566	2	M	88.8	1.6667	1.8769	0.3360	0.3784	0.4405	0.4961
	11	F	77.0	1.5872	2.0613	0.3461	0.4495	0.4020	0.5221
4567	5	M	70.4	1.6016	2.2750	0.3184	0.4523	0.2570	0.3651
	12	F	63.8	1.4851	2.3277	0.2873	0.4503	0.2946	0.4618
4568	2	M	82.7	1.5400	1.8622	0.3400	0.4111	0.3464	0.4189
	11	F	76.3	1.5299	2.0051	0.3106	0.4071	0.3949	0.5176
4569	7	M	67.0	1.5072	2.2496	0.2922	0.4361	0.2398	0.3579
	14	F	71.3	1.4960	2.0982	0.2509	0.3519	0.3060	0.4292
4570	1	M	80.5	1.7324	2.1520	0.3380	0.4199	0.4131	0.5132
	5	F	76.3	1.6185	2.1212	0.2617	0.3430	0.3221	0.4221
4571	3	M	96.4	1.5912	1.6506	0.4122	0.4276	0.4963	0.5148
	13	F	80.1	1.4786	1.8459	0.3531	0.4408	0.3977	0.4965
4572	4	M	69.9	1.6155	2.3112	0.3701	0.5295	0.2889	0.4133
	12	F	61.1	1.5299	2.5039	0.3142	0.5142	0.3011	0.4928
4573	2	M	72.8	1.5703	2.1570	0.3016	0.4143	0.3032	0.4165
	12	F	71.7	1.5269	2.1296	0.2794	0.3897	0.3241	0.4520
4574	6	M	72.1	1.6005	2.2198	0.2639	0.3660	0.3915	0.5430
	7	F	62.9	1.5329	2.4370	0.2948	0.4687	0.3703	0.5887

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APPENDIX Y F1 GENERATION

GASOLINE ETHANOL 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 Weight	BRAIN Ratio	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
4575	6	M	83.1	1.6219	1.9517	0.3353	0.4035	0.4162	0.5008
	12	F	72.6	1.4877	2.0492	0.2591	0.3569	0.3339	0.4599
4576	2	M	79.0	1.5126	1.9147	0.3541	0.4482	0.3037	0.3844
	12	F	80.0	1.5291	1.9114	0.3641	0.4551	0.3331	0.4164

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APPENDIX Y F1 GENERATION

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

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP I 0 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
1551	2	M	1.6654	0.3258	19.563	0.4996	29.999
	6	F	1.5644	0.2761	17.649	0.4648	29.711
1552	2	M	1.5643	0.3320	21.224	0.2877	18.392
	16	F	1.5252	0.3026	19.840	0.2767	18.142
1553	3	M	1.5578	0.3328	21.363	0.4066	26.101
	14	F	1.5142	0.2906	19.192	0.3483	23.002
1554	8	M	1.6550	0.2882	17.414	0.3939	23.801
	9	F	1.5013	0.1912	12.736	0.2889	19.243
1555	2	M	1.5962	0.3579	22.422	0.3041	19.051
	9	F	1.5435	0.3149	20.402	0.3358	21.756
1556	2	M	1.5719	0.2671	16.992	0.3343	21.267
	9	F	1.5608	0.2788	17.863	0.3197	20.483
1557	2	M	1.6335	0.2807	17.184	0.3267	20.000
	11	F	1.6695	0.2872	17.203	0.3776	22.618
1558	2	M	1.6966	0.3826	22.551	0.3403	20.058
	8	F	1.5029	0.3415	22.723	0.3415	22.723
1559	2	M	1.6054	0.3272	20.381	0.6791	42.301
	13	F	1.5769	0.3055	19.373	0.3852	24.428
1560	3	M	1.6855	0.4037	23.951	0.3796	22.522
	8	F	1.7194	0.4036	23.473	0.3846	22.368
1561	3	M	1.6925	0.3326	19.651	0.3755	22.186
	15	F	1.4903	0.2996	20.103	0.3905	26.203
1562	9	M	1.6609	0.3904	23.505	0.2945	17.731

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP I 0 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
1562	(continued)						
	15	F	1.5942	0.3062	19.207	0.3208	20.123
1563	1	M	1.5066	0.2897	19.229	0.2657	17.636
	8	F	1.4740	0.2981	20.224	0.2640	17.910
1564	2	M	1.6525	0.4218	25.525	0.4035	24.418
	8	F	1.6583	0.4281	25.816	0.3785	22.825
1565	1	M	1.5551	0.2571	16.533	0.3033	19.504
	8	F	1.5264	0.1974	12.932	0.3124	20.466
1566	4	M	1.5714	0.3790	24.119	0.3684	23.444
	10	F	1.5773	0.3282	20.808	0.4048	25.664
1567	4	M	1.4811	0.2973	20.073	0.2988	20.174
	12	F	1.5866	0.3099	19.532	0.3178	20.030
1568	1	M	1.6509	0.3999	24.223	0.4050	24.532
	7	F	1.5321	0.3622	23.641	0.3399	22.185
1569	6	M	1.5156	0.3536	23.331	0.3079	20.315
	7	F	1.4644	0.2669	18.226	0.3046	20.800
1570	1	M	1.6039	0.3899	24.309	0.3953	24.646
	13	F	1.5156	0.2937	19.378	0.3305	21.807
1571	1	M	1.5150	0.3709	24.482	0.2543	16.785
	9	F	1.4659	0.3305	22.546	0.3304	22.539
1572	7	M	1.6695	0.3185	19.078	0.4634	27.757
	15	F	1.5565	0.3874	24.889	0.3645	23.418
1573	4	M	1.5418	0.3977	25.795	0.3993	25.898
	13	F	1.5017	0.2770	18.446	0.4190	27.902

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP I 0 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
1574	5	M	1.7224	0.3984	23.131	0.3119	18.108
	10	F	1.5770	0.3165	20.070	0.3380	21.433
1575	5	M	1.7248	0.3189	18.489	0.3833	22.223
	9	F	1.5671	0.2141	13.662	0.3095	19.750

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APPENDIX Y F1 GENERATION

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

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
2551	1	M	1.6074	0.4108	25.557	0.3541	22.029
	12	F	1.5322	0.4204	27.438	0.3828	24.984
2552	5	M	1.6306	0.3724	22.838	0.3322	20.373
	14	F	1.3855	0.3219	23.233	0.3454	24.930
2553	3	M	1.6027	0.3333	20.796	0.3420	21.339
	14	F	1.5213	0.2588	17.012	0.3339	21.948
2554	1	M	1.6716	0.3206	19.179	0.4250	25.425
	14	F	1.5621	0.3565	22.822	0.4316	27.629
2555	2	M	1.6839	0.3174	18.849	0.3992	23.707
	17	F	1.6400	0.3508	21.390	0.4308	26.268
2556	4	M	1.6786	0.2640	15.727	0.2319	13.815
	10	F	1.4917	0.2588	17.349	0.2485	16.659
2557	5	M	1.5067	0.3250	21.570	0.3270	21.703
	12	F	1.4697	0.3277	22.297	0.4139	28.162
2558	4	M	1.7370	0.2801	16.126	0.2801	16.126
	10	F	1.6546	0.2793	16.880	0.3410	20.609
2559	4	M	1.5064	0.2488	16.516	0.2857	18.966
	7	F	1.5175	0.2975	19.605	0.3703	24.402
2560	3	M	1.6066	0.3651	22.725	0.3258	20.279
	8	F	1.5150	0.2953	19.492	0.4068	26.851
2561	7	M	1.6192	0.3870	23.901	0.4508	27.841
	13	F	1.5998	0.2835	17.721	0.3886	24.291
2562	3	M	1.5682	0.2689	17.147	0.3453	22.019

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

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
2562	(continued)						
	10	F	1.5105	0.2267	15.008	0.3934	26.044
2563	4	M	1.4870	0.3074	20.672	0.3767	25.333
	10	F	1.4633	0.2668	18.233	0.3946	26.966
2564	1	M	1.5506	0.3345	21.572	0.3579	23.081
	11	F	1.5114	0.2456	16.250	0.4341	28.722
2565	4	M	1.5768	0.3376	21.410	0.4110	26.065
	13	F	1.5483	0.3286	21.223	0.4230	27.320
2567	7	M	1.7004	0.3870	22.759	0.4558	26.805
	13	F	1.5446	0.2770	17.933	0.4207	27.237
2568	5	M	1.6154	0.3412	21.122	0.3386	20.961
	10	F	1.5503	0.3232	20.848	0.4000	25.801
2569	1	M	1.5600	0.3417	21.904	0.2677	17.160
	9	F	1.5419	0.2583	16.752	0.3577	23.199
2570	2	M	1.6303	0.3784	23.210	0.3420	20.978
	8	F	1.6090	0.2642	16.420	0.3304	20.534
2571	3	M	1.7210	0.4164	24.195	0.4513	26.223
	12	F	1.5796	0.3196	20.233	0.3385	21.429
2572	4	M	1.6826	0.4432	26.340	0.4244	25.223
	5	F	1.6765	0.3433	20.477	0.3853	22.982
2573	4	M	1.5820	0.3381	21.372	0.3111	19.665
	12	F	1.4788	0.3277	22.160	0.3691	24.959
2574	9	M	1.5761	0.4341	27.543	0.3530	22.397
	14	F	1.4728	0.3153	21.408	0.2851	19.358

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP II 2000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
2575	8	M	1.6842	0.3575	21.227	0.3526	20.936
	9	F	1.3836	0.3029	21.892	0.3814	27.566
2576	3	M	1.5642	0.3532	22.580	0.4116	26.314
	8	F	1.5281	0.2682	17.551	0.3148	20.601

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
3551	5	M	1.6063	0.3453	21.497	0.2787	17.350
	10	F	1.6722	0.3344	19.998	0.3881	23.209
3553	3	M	1.7165	0.3569	20.792	0.2811	16.376
	9	F	1.6024	0.2738	17.087	0.3185	19.876
3554	6	M	1.6393	0.4186	25.535	0.3390	20.680
	7	F	1.5897	0.3512	22.092	0.3643	22.916
3555	2	M	1.6888	0.3816	22.596	0.4572	27.072
	12	F	1.6523	0.2921	17.678	0.4619	27.955
3556	1	M	1.5143	0.3085	20.372	0.3206	21.171
	13	F	1.5140	0.3148	20.793	0.2904	19.181
3557	8	M	1.5432	0.3558	23.056	0.3125	20.250
	14	F	1.4561	0.2684	18.433	0.3288	22.581
3558	1	M	1.5547	0.3118	20.055	0.2627	16.897
	2	F	1.4945	0.2603	17.417	0.2614	17.491
3559	6	M	1.5794	0.3714	23.515	0.4820	30.518
	12	F	1.6028	0.3963	24.725	0.4662	29.087
3560	3	M	1.6388	0.2745	16.750	0.4392	26.800
	15	F	1.6195	0.2905	17.938	0.3887	24.001
3561	2	M	1.6029	0.2802	17.481	0.3252	20.288
	11	F	1.5264	0.2590	16.968	0.2656	17.400
3562	7	M	1.5404	0.3465	22.494	0.3303	21.442
	12	F	1.4355	0.3282	22.863	0.2848	19.840
3563	3	M	1.6283	0.3206	19.689	0.3902	23.964

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
3563	(continued)						
	11	F	1.5774	0.3018	19.133	0.3714	23.545
3564	1	M	1.6046	0.2335	14.552	0.2401	14.963
	12	F	1.5205	0.2587	17.014	0.3152	20.730
3565	1	M	1.5708	0.3162	20.130	0.3853	24.529
	7	F	1.6360	0.2576	15.746	0.3336	20.391
3566	1	M	1.5478	0.3521	22.748	0.2846	18.387
	14	F	1.4365	0.2665	18.552	0.3121	21.726
3567	3	M	1.8001	0.3722	20.677	0.3920	21.777
	12	F	1.6288	0.3439	21.114	0.4623	28.383
3568	7	M	1.5189	0.3000	19.751	0.3234	21.292
	13	F	1.4757	0.2287	15.498	0.3821	25.893
3569	1	M	1.6026	0.3461	21.596	0.3756	23.437
	4	F	1.6825	0.3780	22.467	0.4681	27.822
3570	5	M	1.6185	0.3885	24.004	0.3977	24.572
	11	F	1.5362	0.2912	18.956	0.3493	22.738
3571	6	M	1.5903	0.3091	19.437	0.3853	24.228
	12	F	1.5721	0.3100	19.719	0.3489	22.193
3572	5	M	1.5618	0.3667	23.479	0.4524	28.967
	11	F	1.5250	0.2511	16.466	0.4096	26.859
3573	4	M	1.7524	0.3119	17.798	0.3169	18.084
	5	F	1.6109	0.2952	18.325	0.4440	27.562
3574	5	M	1.5585	0.4057	26.031	0.3840	24.639
	13	F	1.6389	0.3212	19.599	0.4224	25.773

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP III 10000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
3575	3	M	1.5891	0.3293	20.722	0.3563	22.421
	12	F	1.5632	0.3782	24.194	0.3225	20.631
3576	7	M	1.5293	0.3426	22.402	0.3471	22.697
	11	F	1.5442	0.3430	22.212	0.3618	23.430

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INHALATION REPRODUCTION TOXICITY STUDY IN RATS

INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP IV 20000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
4551	4	M	1.5677	0.2725	17.382	0.3257	20.776
	12	F	1.5279	0.2926	19.150	0.3712	24.295
4552	13	M	1.6952	0.3615	21.325	0.4154	24.504
	17	F	1.5949	0.3641	22.829	0.4512	28.290
4553	1	M	1.4483	0.2482	17.137	0.4554	31.444
	8	F	1.4636	0.2478	16.931	0.4300	29.380
4554	3	M	1.5816	0.3660	23.141	0.3631	22.958
	11	F	1.5654	0.4218	26.945	0.3088	19.727
4555	8	M	1.6308	0.2916	17.881	0.2872	17.611
	14	F	1.5798	0.2593	16.413	0.3288	20.813
4556	1	M	1.6338	0.3291	20.143	0.3567	21.833
	11	F	1.5861	0.2821	17.786	0.3470	21.878
4557	7	M	1.5301	0.3209	20.972	0.2892	18.901
	11	F	1.4909	0.2724	18.271	0.3843	25.776
4558	6	M	1.5585	0.3754	24.087	0.3575	22.939
	12	F	1.5548	0.2793	17.964	0.3018	19.411
4559	5	M	1.6611	0.4214	25.369	0.3550	21.371
	13	F	1.5193	0.3056	20.115	0.3258	21.444
4560	3	M	1.5916	0.4096	25.735	0.3701	23.253
	14	F	1.5014	0.3325	22.146	0.3585	23.878
4561	1	M	1.6327	0.3059	18.736	0.3968	24.303
	11	F	1.4445	0.2273	15.736	0.2760	19.107
4562	6	M	1.5645	0.3426	21.898	0.2960	18.920

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP IV 20000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
4562	(continued)						
	10	F	1.4668	0.2235	15.237	0.2366	16.130
4563	2	M	1.5232	0.4232	27.784	0.2871	18.848
	12	F	1.5194	0.4081	26.859	0.3310	21.785
4564	7	M	1.6800	0.3553	21.149	0.4741	28.220
	13	F	1.5944	0.3068	19.242	0.4691	29.422
4566	2	M	1.6667	0.3360	20.160	0.4405	26.429
	11	F	1.5872	0.3461	21.806	0.4020	25.328
4567	5	M	1.6016	0.3184	19.880	0.2570	16.046
	12	F	1.4851	0.2873	19.345	0.2946	19.837
4568	2	M	1.5400	0.3400	22.078	0.3464	22.494
	11	F	1.5299	0.3106	20.302	0.3949	25.812
4569	7	M	1.5072	0.2922	19.387	0.2398	15.910
	14	F	1.4960	0.2509	16.771	0.3060	20.455
4570	1	M	1.7324	0.3380	19.511	0.4131	23.846
	5	F	1.6185	0.2617	16.169	0.3221	19.901
4571	3	M	1.5912	0.4122	25.905	0.4963	31.190
	13	F	1.4786	0.3531	23.881	0.3977	26.897
4572	4	M	1.6155	0.3701	22.909	0.2889	17.883
	12	F	1.5299	0.3142	20.537	0.3011	19.681
4573	2	M	1.5703	0.3016	19.207	0.3032	19.308
	12	F	1.5269	0.2794	18.299	0.3241	21.226
4574	6	M	1.6005	0.2639	16.489	0.3915	24.461
	7	F	1.5329	0.2948	19.232	0.3703	24.157

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INDIVIDUAL PUP ORGAN WEIGHTS (GRAMS) AND ORGAN/BRAIN WEIGHT RATIOS (%)

GROUP IV 20000 MG/M3

Animal Number	Pup No.	Sex	Brain Weight	SPLEEN Weight	SPLEEN Ratio	THYMUS Weight	THYMUS Ratio
4575	6	M	1.6219	0.3353	20.673	0.4162	25.661
	12	F	1.4877	0.2591	17.416	0.3339	22.444
4576	2	M	1.5126	0.3541	23.410	0.3037	20.078
	12	F	1.5291	0.3641	23.811	0.3331	21.784