

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

<b>C Number:</b>	C92005
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1854

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1854

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1856

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1856

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Mild

Respirat Epith

Metaplasia

Squamous, Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

**ANIMAL ID:** 1860

**TRT#:** 7  
**DOSE:** 2PPM

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 1860

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone	Epididymis	Heart	Kidney
Larynx	Liver	Spleen	Testes

**OBSERVATIONS**

Lung		Metaplasia	Osseous, Minimal
Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1861

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1861

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Methyl vinyl ketone

CAS Number: 78-94-4

Date Report Requested: 10/22/2014

Time Report Requested: 07:35:47

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 1862

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 2PPM

DISP: Terminal Sacrifice

HISTO: 1862

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone  
Testes

Epididymis

Liver

Spleen

**MISSING**

Heart

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

Larynx

Glands

Inflammation

Acute, Minimal

Lung

Inflammation

Chronic, Minimal

Nose

Respirat Epith

Hyperplasia

Moderate

Olfactory Epi

Inflammation

Chronic, Minimal

Respirat Epith

Metaplasia

Mild

Respirat Epith

Metaplasia

Squamous, Moderate

Olfactory Epi

Mineralization

Minimal

Respirat Epith

Mineralization

Minimal

Olfactory Epi

Necrosis

Moderate

Olfactory Epi

Regeneration

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1864

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1864

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

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<b>ANIMAL ID:</b> 1865	<b>TRT#:</b> 7 <b>DOSE:</b> 2PPM	<b>SEX:</b> Male <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 94 <b>HISTO:</b> 1865
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Epididymis	Heart	Larynx
Spleen			

---

**MISSING**

Testes

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**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Liver		Hepatodiaphragmatic Nodule	
	[ Hepatodiaphragmatic Nodule TGLS = 1-4 ]		
Lung		Inflammation	Chronic, Minimal
Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 92005-01

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

Test Compound: Methyl vinyl ketone

CAS Number: 78-94-4

Date Report Requested: 10/22/2014

Time Report Requested: 07:35:47

First Dose M/F: NA / NA

Lab: NIEHS

ANIMAL ID: 1866

TRT#: 7

SEX: Male

DAY ON TEST: 94

DOSE: 2PPM

DISP: Terminal Sacrifice

HISTO: 1866

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone  
Larynx

Epididymis  
Liver

Heart  
Spleen

Kidney  
Testes

**OBSERVATIONS**

Lung  
Nose

Respirat Epith  
  
Olfactory Epi  
Respirat Epith  
Olfactory Epi  
Olfactory Epi  
Olfactory Epi

Inflammation  
Hyperplasia  
Inflammation  
Metaplasia  
Metaplasia  
Mineralization  
Necrosis  
Regeneration

Chronic, Minimal  
Moderate  
Chronic, Minimal  
Mild  
Squamous, Moderate  
Minimal  
Moderate  
Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

ANIMAL ID: 1869

TRT#: 7  
DOSE: 2PPM

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 94  
HISTO: 1869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Heart	Liver
Spleen	Testes		

OBSERVATIONS

Kidney		Inflammation	Chronic, Mild
Larynx		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic, Minimal
Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Mild
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 1871

**TRT#:** 5  
**DOSE:** 1PPM

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 1871

---

**OBSERVATIONS**

Nose

Respirat Epith  
Respirat Epith

Hyperplasia  
Metaplasia

Mild  
Squamous, Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1872

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1872

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Epididymis

Larynx

Liver

Lung

Nose

Spleen

Testes

---

**OBSERVATIONS**

Heart

Cardiomyopathy

Minimal

Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1873

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1873

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Epididymis

Heart

Larynx

Liver

Lung

Nose

Spleen

Testes

---

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1874

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1874

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 1879

**TRT#:** 3  
**DOSE:** 0.5PPM

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 1879

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1890

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1890

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 1896

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1896

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1898

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1898

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

ANIMAL ID: 1903

TRT#: 7  
DOSE: 2PPM

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 94  
HISTO: 1903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Epididymis	Heart	Larynx
Liver	Lung	Spleen	Testes

OBSERVATIONS

Kidney		Nephropathy	Minimal
Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1904

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1904

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1906

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1906

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 1907

**TRT#:** 1  
**DOSE:** 0PPM

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 1907

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Epididymis	Heart	Larynx
Nose	Spleen	Testes	

---

**OBSERVATIONS**

Kidney	Nephropathy	Minimal
Liver	Hematopoietic Cell Proliferation	Minimal
Lung	Inflammation	Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1908

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1908

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1909

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1909

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1914

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1914

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Epididymis

Heart

Kidney

Larynx

Liver

Lung

Nose

Spleen

Testes

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1915

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1915

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Mild

Respirat Epith

Metaplasia

Squamous, Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

---

ANIMAL ID: 1918	TRT#: 7 DOSE: 2PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 94 HISTO: 1918
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Heart	Larynx	Liver
Spleen			

---

**MISSING**

Epididymis

---

**OBSERVATIONS**

Kidney		Nephropathy	Minimal
Lung		Inflammation	Chronic, Minimal
Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild
Testes	Seminif Tub	Degeneration	Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1919

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1919

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1921

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1921

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1923

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1923

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Mild

Respirat Epith

Metaplasia

Squamous, Mild

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 1924

**TRT#:** 1  
**DOSE:** 0PPM

**SEX:** Male  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 94  
**HISTO:** 1924

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Epididymis	Heart	Larynx
Liver	Nose	Spleen	Testes

---

**OBSERVATIONS**

Kidney	Nephropathy	Minimal
Lung	Inflammation	Chronic, Minimal
	Metaplasia	Osseous, Minimal

---

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1925

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1925

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Epididymis

Heart

Kidney

Larynx

Liver

Nose

Spleen

Testes

---

**OBSERVATIONS**

Lung

Inflammation

Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1927

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1927

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Epididymis	Heart	Kidney
Larynx	Liver	Lung	Nose
Spleen	Testes		

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1930

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1930

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1933

**TRT#:** 3

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1933

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**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

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**ANIMAL ID:** 1936

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1936

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Epididymis

Heart

Kidney

Larynx

Liver

Lung

Nose

Spleen

Testes

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1940

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 94

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1940

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Epididymis

Heart

Larynx

Liver

Nose

Spleen

Testes

---

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

Lung

Inflammation

Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

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ANIMAL ID: 1941	TRT#: 7 DOSE: 2PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 94 HISTO: 1941
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Epididymis	Larynx	Liver
Lung	Spleen	Testes	

---

**OBSERVATIONS**

Heart		Cardiomyopathy	Minimal
Kidney	Pelvis	Inflammation	Chronic, Minimal
		Nephropathy	Minimal
Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

ANIMAL ID: 1943

TRT#: 7  
DOSE: 2PPM

SEX: Male  
DISP: Terminal Sacrifice

DAY ON TEST: 94  
HISTO: 1943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Heart	Kidney	Larynx
Liver	Spleen	Testes	

OBSERVATIONS

Epididymis		Inflammation	Chronic, Minimal
Lung		Inflammation	Chronic, Minimal
Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

---

ANIMAL ID: 1948	TRT#: 7 DOSE: 2PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 94 HISTO: 1948
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Heart	Kidney	Larynx
Liver	Lung	Spleen	Testes

---

**MISSING**

Epididymis

---

**OBSERVATIONS**

Nose	Respirat Epith	Hyperplasia Inflammation	Mild Chronic, Minimal
	Olfactory Epi	Metaplasia	Mild
	Respirat Epith	Metaplasia	Squamous, Moderate
	Olfactory Epi	Mineralization	Mild
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1951

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1951

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1952

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1952

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Heart

Larynx

Liver

Lung

Nose

Ovary

Spleen

Uterus

---

**OBSERVATIONS**

Kidney

Nephropathy

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

---

ANIMAL ID: 1954	TRT#: 8 DOSE: 2PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 95 HISTO: 1954
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ORGAN AND ACCOUNTABLE SITE STATUS

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NORMAL

Bone	Kidney	Larynx	Liver
Ovary	Spleen	Uterus	

---

OBSERVATIONS

Heart		Cardiomyopathy	Minimal
Lung		Inflammation	Chronic, Minimal
		Metaplasia	Osseous, Minimal
Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Minimal
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1955

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1955

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1957

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1957

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

**ANIMAL ID:** 1960

**TRT#:** 8  
**DOSE:** 2PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 95  
**HISTO:** 1960

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Bone	Heart	Kidney	Larynx
Liver	Ovary	Spleen	Uterus

**OBSERVATIONS**

Lung		Inflammation	Chronic, Minimal
Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

**PRIMARY CAUSE OF DEATH**

-

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

ANIMAL ID: 1965

TRT#: 8  
DOSE: 2PPM

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 95  
HISTO: 1965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Heart	Kidney	Larynx
Liver	Ovary	Spleen	Uterus

OBSERVATIONS

Lung		Inflammation	Chronic, Minimal
Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Necrosis	Mild
	Olfactory Epi	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 1966

**TRT#:** 2  
**DOSE:** 0PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 95  
**HISTO:** 1966

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Heart	Kidney	Larynx
Liver	Lung	Nose	Ovary
Spleen	Uterus		

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

ANIMAL ID: 1969

TRT#: 8  
DOSE: 2PPM

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 95  
HISTO: 1969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Heart	Kidney	Larynx
Lung	Ovary	Spleen	Uterus

OBSERVATIONS

Liver		Inflammation	Chronic, Minimal
Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1970

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1970

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Heart

Kidney

Liver

Lung

Nose

Ovary

Spleen

Uterus

---

**OBSERVATIONS**

Larynx

Inflammation

Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 1974

**TRT#:** 4  
**DOSE:** 0.5PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 95  
**HISTO:** 1974

---

**OBSERVATIONS**

Nose

Inflammation

Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1976

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1976

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

ANIMAL ID: 1979

TRT#: 8  
DOSE: 2PPM

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 95  
HISTO: 1979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Heart	Kidney	Larynx
Liver	Lung	Ovary	Spleen
Uterus			

OBSERVATIONS

Nose	Respirat Epith	Hyperplasia	Mild
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 1981

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1981

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1982

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1982

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1983

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1983

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1990

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1990

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 1993

**TRT#:** 2  
**DOSE:** 0PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 95  
**HISTO:** 1993

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Heart	Kidney	Nose
Ovary	Spleen	Uterus	

---

**OBSERVATIONS**

Larynx	Inflammation	Chronic, Mild
Liver	Hematopoietic Cell Proliferation	Minimal
Lung	Inflammation	Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1996

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1996

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1997

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1997

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 1998

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 1998

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Heart

Kidney

Larynx

Liver

Lung

Nose

Ovary

Spleen

Uterus

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

ANIMAL ID: 1999

TRT#: 8  
DOSE: 2PPM

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 95  
HISTO: 1999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Heart	Kidney	Lung
Ovary	Spleen	Uterus	

OBSERVATIONS

Larynx		Inflammation	Chronic, Minimal
Liver		Inflammation	Chronic, Minimal
Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Minimal

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2006

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2006

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Heart

Kidney

Larynx

Lung

Nose

Ovary

Spleen

Uterus

---

**OBSERVATIONS**

Liver

Inflammation

Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2009

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2009

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Heart

Kidney

Larynx

Lung

Nose

Ovary

Spleen

Uterus

---

**OBSERVATIONS**

Liver

Inflammation

Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2011

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2011

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2014

**TRT#:** 2

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2014

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone

Heart

Kidney

Liver

Lung

Nose

Ovary

Spleen

Uterus

---

**OBSERVATIONS**

Larynx

Inflammation

Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2015

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2015

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

---

<b>ANIMAL ID:</b> 2017	<b>TRT#:</b> 8 <b>DOSE:</b> 2PPM	<b>SEX:</b> Female <b>DISP:</b> Terminal Sacrifice	<b>DAY ON TEST:</b> 95 <b>HISTO:</b> 2017
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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Heart	Kidney	Liver
Lung	Ovary	Spleen	Uterus

---

**OBSERVATIONS**

Larynx		Foreign Body	Minimal
		Inflammation	Acute, Minimal
Nose	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

---

PRIMARY CAUSE OF DEATH

-

---

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2021

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2021

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 2023

**TRT#:** 2  
**DOSE:** 0PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 95  
**HISTO:** 2023

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Kidney	Liver	Nose
Ovary	Spleen	Uterus	

---

**OBSERVATIONS**

Heart	Cardiomyopathy	Minimal
Larynx	Inflammation	Acute, Minimal
Lung	Inflammation	Chronic, Minimal

---

**PRIMARY CAUSE OF DEATH** -

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2024

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2024

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2027

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2027

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 2029

**TRT#:** 8  
**DOSE:** 2PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 95  
**HISTO:** 2029

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Heart	Kidney	Larynx
Liver	Lung	Ovary	Spleen
Uterus			

---

**OBSERVATIONS**

Nose	Respirat Epith	Hyperplasia Inflammation	Mild Chronic, Minimal
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2030

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2030

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01  
**Test Type:** 90-DAY  
**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Methyl vinyl ketone  
**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 07:35:47  
**First Dose M/F:** NA / NA  
**Lab:** NIEHS

---

**ANIMAL ID:** 2033

**TRT#:** 2  
**DOSE:** 0PPM

**SEX:** Female  
**DISP:** Terminal Sacrifice

**DAY ON TEST:** 95  
**HISTO:** 2033

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Bone	Heart	Kidney	Larynx
Liver	Lung	Nose	Ovary
Spleen	Uterus		

---

**PRIMARY CAUSE OF DEATH**

-

---

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2037

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2037

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2038

**TRT#:** 6

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 1PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2038

---

**OBSERVATIONS**

Nose

Respirat Epith

Hyperplasia

Minimal

Inflammation

Chronic, Mild

Respirat Epith

Metaplasia

Squamous, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 92005-01

**Test Type:** 90-DAY

**Species/Strain:** Rat/F 344/N

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Methyl vinyl ketone

**CAS Number:** 78-94-4

**Date Report Requested:** 10/22/2014

**Time Report Requested:** 07:35:47

**First Dose M/F:** NA / NA

**Lab:** NIEHS

---

**ANIMAL ID:** 2042

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 95

**DOSE:** 0.5PPM

**DISP:** Terminal Sacrifice

**HISTO:** 2042

---

**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

Nose

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

ANIMAL ID: 2044

TRT#: 8  
DOSE: 2PPM

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 95  
HISTO: 2044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Heart	Kidney	Larynx
Lung	Ovary	Spleen	

OBSERVATIONS

Liver		Inflammation	Chronic, Minimal
Nose	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Minimal
Uterus		Hydrometra	Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 92005-01  
Test Type: 90-DAY  
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Methyl vinyl ketone  
CAS Number: 78-94-4

Date Report Requested: 10/22/2014  
Time Report Requested: 07:35:47  
First Dose M/F: NA / NA  
Lab: NIEHS

ANIMAL ID: 2049

TRT#: 8  
DOSE: 2PPM

SEX: Female  
DISP: Terminal Sacrifice

DAY ON TEST: 95  
HISTO: 2049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Bone	Heart	Kidney	Larynx
Liver	Lung	Ovary	Spleen
Uterus			

OBSERVATIONS

Nose	Respirat Epith	Hyperplasia Inflammation	Mild Chronic, Minimal
	Olfactory Epi	Metaplasia	Minimal
	Respirat Epith	Metaplasia	Squamous, Mild
	Olfactory Epi	Mineralization	Minimal
	Olfactory Epi	Necrosis	Moderate
	Olfactory Epi	Regeneration	Mild

PRIMARY CAUSE OF DEATH

-

\*\* END OF REPORT \*\*