

**Experiment Number:** 10188 - 02  
**Test Type:** CHRONIC  
**Route:** DOSED FEED  
**Species/Strain:** RATS/HSD

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Di(2-ethylhexyl) Phthalate

**CAS Number:** 117-81-7

**Date Report Requested:** 09/09/2020

**Time Report Requested:** 10:51:37

**First Dose M/F:** 06/27/11 / 06/28/11

**Lab:** BAT

**NTP Study Number:** C10188  
**Lock Date:** 07/15/2015  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** NONE

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 09/09/2020

Time Report Requested: 10:51:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm Male

TOTAL 50	UNCENSORED DEATHS 25					CENSORED DEATHS 0					TERMINAL 25		
UNCENSORED DEATH DAYS													
227	328	336	436	476	530	540	547	547	577	577	579	593	597
598	608	610	642	657	673	685	696	707	708	723			
CENSORED DEATH DAYS													
None													

DOSE = 300 ppm Male

TOTAL 49	UNCENSORED DEATHS 16					CENSORED DEATHS 0					TERMINAL 33		
UNCENSORED DEATH DAYS													
314	359	486	542	545	546	577	595	631	638	663	667	673	690
708	708												
CENSORED DEATH DAYS													
None													

DOSE = 1000 ppm Male

TOTAL 50	UNCENSORED DEATHS 10					CENSORED DEATHS 0					TERMINAL 40		
UNCENSORED DEATH DAYS													
512	557	617	645	669	675	694	694	698	708				
CENSORED DEATH DAYS													
None													

DOSE = 3000 ppm Male

TOTAL 50	UNCENSORED DEATHS 15					CENSORED DEATHS 0					TERMINAL 35		
UNCENSORED DEATH DAYS													
266	450	534	616	628	628	631	632	645	657	669	674	708	713
719													
CENSORED DEATH DAYS													
None													

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 09/09/2020

Time Report Requested: 10:51:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**MALE RATS**

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

---

**DOSE = 10000 ppm Male**

TOTAL 50

UNCENSORED DEATHS 21

CENSORED DEATHS 0

TERMINAL 29

UNCENSORED DEATH DAYS

3	3	3	3	3	5	99	167	226	228	295	295	395	413
478	520	645	673	699	717	727							

CENSORED DEATH DAYS

None

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 09/09/2020

Time Report Requested: 10:51:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 ppm Male	100.0	100.0	98.0	94.0	94.0	90.0	86.0	70.0	62.0	50.0
300 ppm Male	100.0	100.0	100.0	95.9	95.9	95.9	89.8	83.7	77.6	67.3
1000 ppm Male	100.0	100.0	100.0	100.0	100.0	100.0	98.0	96.0	92.0	80.0
3000 ppm Male	100.0	100.0	98.0	98.0	98.0	96.0	94.0	94.0	80.0	70.0
10000 ppm Male	88.0	84.0	80.0	76.0	72.0	70.0	68.0	68.0	66.0	58.0

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 09/09/2020

Time Report Requested: 10:51:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	50.0%	67.3%	80.0%	70.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.278	P=0.105N	P=0.001N	P=0.037N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	567.9 (25.2)	583.9 (29.3)	646.9 (20.9)	611.3 (30.4)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	648.4 (17.0)	681.6 (13.6)	712.6 (6.2)	693.7 (11.8)

DOSE	10000 ppm Male
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	58.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.868N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	314.1 (59.1)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	554.8 (38.1)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 09/09/2020

Time Report Requested: 10:51:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 732 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm Female

TOTAL 50	UNCENSORED DEATHS 19				CENSORED DEATHS 0				TERMINAL 31				
UNCENSORED DEATH DAYS													
368	406	445	524	560	561	588	592	616	625	634	645	645	689
689	724	725	726	728									
CENSORED DEATH DAYS													
None													

DOSE = 300 ppm Female

TOTAL 50	UNCENSORED DEATHS 18				CENSORED DEATHS 0				TERMINAL 32				
UNCENSORED DEATH DAYS													
288	396	415	477	477	497	509	526	528	585	592	655	659	696
701	701	713	721										
CENSORED DEATH DAYS													
None													

DOSE = 1000 ppm Female

TOTAL 50	UNCENSORED DEATHS 16				CENSORED DEATHS 0				TERMINAL 34				
UNCENSORED DEATH DAYS													
284	344	496	500	533	546	557	581	590	596	640	648	651	701
701	701												
CENSORED DEATH DAYS													
None													

DOSE = 3000 ppm Female

TOTAL 50	UNCENSORED DEATHS 16				CENSORED DEATHS 0				TERMINAL 34				
UNCENSORED DEATH DAYS													
172	359	407	457	517	545	592	629	639	653	670	675	701	707
707	721												
CENSORED DEATH DAYS													
None													

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 09/09/2020

Time Report Requested: 10:51:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 732 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

---

**DOSE = 10000 ppm Female**

TOTAL 50

UNCENSORED DEATHS 23

CENSORED DEATHS 0

TERMINAL 27

UNCENSORED DEATH DAYS

2	2	3	4	4	8	8	37	314	488	515	576	592	616
620	624	642	655	659	685	701	718	723					

CENSORED DEATH DAYS

None

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 09/09/2020

Time Report Requested: 10:51:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 732 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	732(A)
0 ppm Female	100.0	100.0	100.0	100.0	96.0	94.0	92.0	84.0	74.0	62.0
300 ppm Female	100.0	100.0	100.0	98.0	94.0	90.0	82.0	78.0	74.0	64.0
1000 ppm Female	100.0	100.0	100.0	96.0	96.0	96.0	90.0	80.0	74.0	68.0
3000 ppm Female	100.0	98.0	98.0	96.0	94.0	92.0	88.0	86.0	80.0	68.0
10000 ppm Female	84.0	84.0	84.0	82.0	82.0	82.0	78.0	74.0	62.0	54.0

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

Experiment Number: 10188 - 02

Test Type: CHRONIC

Route: DOSED FEED

Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Di(2-ethylhexyl) Phthalate

CAS Number: 117-81-7

Date Report Requested: 09/09/2020

Time Report Requested: 10:51:37

First Dose M/F: 06/27/11 / 06/28/11

Lab: BAT

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 732 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	62.0%	64.0%	68.0%	68.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.139	P=1.000N	P=0.745N	P=0.691N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	604.7 (24.7)	563.1 (29.8)	566.8 (30.0)	571.9 (38.7)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	683.6 (12.8)	671.2 (15.7)	679.1 (14.5)	680.8 (16.1)

DOSE	10000 ppm Female
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	54.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.345
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	399.8 (63.4)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	579.2 (37.3)

\*\*\* END OF REPORT \*\*\*

(A) FIRST TERMINAL SACRIFICE  
 (B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".  
 (C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE  
 (D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)