

Experiment Number: 20727 - 01
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

ortho-Phthalaldehyde

CAS Number: 643-79-8

Date Report Requested: 01/13/2014

Time Report Requested: 08:30:35

First Dose M/F: 01/19/09 / 01/20/09

Lab: BNW

NTP Study Number: C20727
Lock Date: 08/21/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.0_001
PWG Approval Date: 11/01/2011

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MALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 0.44 ppm

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 0.88 ppm

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 1.75 ppm

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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MALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 3.5 ppm

TOTAL	10	UNCENSORED DEATHS	7	CENSORED DEATHS	0	TERMINAL	3
UNCENSORED DEATH DAYS							
	3	4	4	10	39	39	47
CENSORED DEATH DAYS							
	None						

DOSE = 7.0 ppm

TOTAL	10	UNCENSORED DEATHS	10	CENSORED DEATHS	0	TERMINAL	0			
UNCENSORED DEATH DAYS										
	3	3	3	3	4	5	6	6	7	10
CENSORED DEATH DAYS										
	None									

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MALE RATS
FIRST TERMINAL SACRIFICE AT 93 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	93(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.44 ppm	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.88 ppm	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.75 ppm	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3.5 ppm	60.0	60.0	60.0	40.0	30.0	30.0	30.0	30.0	30.0	30.0
7.0 ppm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(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)

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MALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	----	----	----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)

DOSE	3.5 ppm	7.0 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	30.0%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.004	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	20.9 (7.5)	5.0 (0.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	42.5 (12.1)	5.0 (0.7)

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

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

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 0.44 ppm

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 0.88 ppm

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 1.75 ppm

TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 93 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 3.5 ppm

TOTAL 10	UNCENSORED DEATHS 2	CENSORED DEATHS 0	TERMINAL 8
UNCENSORED DEATH DAYS			
16 46			
CENSORED DEATH DAYS			
None			

DOSE = 7.0 ppm

TOTAL 10	UNCENSORED DEATHS 10	CENSORED DEATHS 0	TERMINAL 0
UNCENSORED DEATH DAYS			
4 4 4 5 5 5 6 6 9 9			
CENSORED DEATH DAYS			
None			

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	93(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.44 ppm	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0.88 ppm	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.75 ppm	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3.5 ppm	100.0	90.0	90.0	90.0	80.0	80.0	80.0	80.0	80.0	80.0
7.0 ppm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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FIRST TERMINAL SACRIFICE AT 93 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	CONTROL	0.44 ppm	0.88 ppm	1.75 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	----	----	----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)

DOSE	3.5 ppm	7.0 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	80.0%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.456	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	31.0 (15.0)	5.7 (0.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	80.6 (8.6)	5.7 (0.6)

*** END OF REPORT ***

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