

Experiment Number: 10260 - 01
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
2-Hydroxy-4-methoxybenzophenone
CAS Number: 131-57-7

Date Report Requested: 10/18/2018
Time Report Requested: 13:26:54
First Dose M/F: 11/08/10 / 11/09/10
Lab: BAT

Custom Rpt (Litter Based)

NTP Study Number:	C10260		
Lock Date:	07/22/2014		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	2.5.0.0_sfh		
PWG Approval Date:	10/18/2016		

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm Male

TOTAL 50 [29]	UNCENSORED DEATHS 20					CENSORED DEATHS 0					TERMINAL 30				
UNCENSORED DEATH DAYS															
508	540	577	626	666	670	673	675	680	692	694	695	707	708		
709	709	715	715	724	724										
CENSORED DEATH DAYS															
None															

DOSE = 1000 ppm Male

TOTAL 50 [25]	UNCENSORED DEATHS 21					CENSORED DEATHS 0					TERMINAL 29				
UNCENSORED DEATH DAYS															
162	239	464	481	572	592	593	618	618	640	652	666	673	683		
683	693	708	708	711	715	726									
CENSORED DEATH DAYS															
None															

DOSE = 3000 ppm Male

TOTAL 50 [25]	UNCENSORED DEATHS 26					CENSORED DEATHS 0					TERMINAL 24				
UNCENSORED DEATH DAYS															
430	467	488	562	570	573	576	596	599	624	624	640	646	646		
671	673	675	680	689	698	698	702	709	715	722	724				
CENSORED DEATH DAYS															
None															

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 10000 ppm Male

TOTAL 50 [28]

UNCENSORED DEATHS 17

CENSORED DEATHS 0

TERMINAL 33

UNCENSORED DEATH DAYS

56 309 316 380 576 617 619 625 626 645 646 668 698 710
712 724 728

CENSORED DEATH DAYS

None

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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	100.0	100.0	100.0	100.0	96.0	94.0	92.0	60.0
1000 ppm Male	100.0	98.0	96.0	96.0	96.0	92.0	92.0	86.0	78.0	58.0
3000 ppm Male	100.0	100.0	100.0	100.0	100.0	96.0	94.0	82.0	72.0	48.0
10000 ppm Male	98.0	98.0	98.0	94.0	92.0	92.0	92.0	90.0	78.0	66.0

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS. NEGATIVE TRENDS ARE INDICATED BY "N". TREND AND PAIRWISE TESTS USE A PROPORTIONAL HAZARDS MODEL WITH DAMID AS A RANDOM EFFECT.

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

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

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 ppm Male	1000 ppm Male	3000 ppm Male	10000 ppm Male
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	60.0%	58.0%	48.0%	66.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.486N	P=0.672	P=0.203	P=0.706N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	668.5 (16.2)	604.2 (35.0)	639.8 (14.2)	559.8 (53.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	704.7 (6.5)	674.8 (18.2)	677.9 (12.0)	677.7 (17.1)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm Female

TOTAL 50 [29]	UNCENSORED DEATHS 20					CENSORED DEATHS 0					TERMINAL 30				
UNCENSORED DEATH DAYS															
344	379	387	424	466	478	505	541	571	571	582	596	603	610		
610	641	641	644	664	694										
CENSORED DEATH DAYS															
None															

DOSE = 1000 ppm Female

TOTAL 50 [25]	UNCENSORED DEATHS 17					CENSORED DEATHS 0					TERMINAL 33				
UNCENSORED DEATH DAYS															
308	330	458	483	504	529	617	618	641	645	672	674	680	694		
714	714	723													
CENSORED DEATH DAYS															
None															

DOSE = 3000 ppm Female

TOTAL 50 [25]	UNCENSORED DEATHS 16					CENSORED DEATHS 0					TERMINAL 34				
UNCENSORED DEATH DAYS															
109	498	511	525	540	603	641	667	681	707	709	709	709	712		
721	725														
CENSORED DEATH DAYS															
None															

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 10000 ppm Female

TOTAL 50 [29]

UNCENSORED DEATHS 24

CENSORED DEATHS 0

TERMINAL 26

UNCENSORED DEATH DAYS

5	379	411	474	498	543	577	578	581	599	603	604	641	659
659	667	674	679	691	694	694	694	709	709				

CENSORED DEATH DAYS

None

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FIRST TERMINAL SACRIFICE AT 730 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	730(A)
0 ppm Female	100.0	100.0	100.0	98.0	92.0	88.0	84.0	74.0	62.0	60.0
1000 ppm Female	100.0	100.0	100.0	96.0	96.0	92.0	88.0	88.0	80.0	66.0
3000 ppm Female	100.0	98.0	98.0	98.0	98.0	98.0	90.0	88.0	86.0	68.0
10000 ppm Female	98.0	98.0	98.0	98.0	94.0	92.0	88.0	76.0	70.0	52.0

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FIRST TERMINAL SACRIFICE AT 730 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 ppm Female	1000 ppm Female	3000 ppm Female	10000 ppm Female
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	60.0%	66.0%	68.0%	52.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.231	P=0.385N	P=0.238N	P=0.603
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	547.7 (24.1)	587.6 (36.1)	610.4 (39.2)	580.6 (24.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	659.1 (15.5)	681.9 (14.4)	691.7 (13.7)	658.0 (18.8)

*** END OF REPORT ***

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