

**TDMS No.** 95003 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Methyl trans-styryl ketone

**CAS Number:** 1896-62-4

**Date Report Requested:** 07/06/2010

**Time Report Requested:** 12:57:38

**First Dose M/F:** 04/05/04 / 04/05/04

**Lab:** SRI

F#2\_R2

**C Number:** C95003  
**Lock Date:** 01/29/2007  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0



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**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 MG/KG	100.0	100.0	100.0	100.0	98.0	96.0	94.0	86.0	70.0	54.0
10 MG/KG	100.0	100.0	100.0	96.0	96.0	94.0	92.0	84.0	74.0	60.0
30 MG/KG	100.0	100.0	100.0	98.0	98.0	96.0	94.0	84.0	64.0	44.0
90 MG/KG	100.0	100.0	100.0	100.0	100.0	96.0	94.0	90.0	78.0	60.0

(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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FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	54.0%	60.0%	44.0%	60.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.654N	P=0.719N	P=0.369	P=0.632N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	629.9 (17.5)	600.4 (27.7)	626.7 (15.4)	634.2 (17.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	683.4 (10.6)	677.5 (14.2)	671.7 (11.2)	691.1 (9.7)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0 MG/KG**

TOTAL 50	UNCENSORED DEATHS 20				CENSORED DEATHS 0				TERMINAL 30				
UNCENSORED DEATH DAYS													
22	426	554	605	629	629	632	640	644	646	650	653	659	675
677	701	708	710	714	720								
CENSORED DEATH DAYS													
None													

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**DOSE = 10 MG/KG**

TOTAL 50	UNCENSORED DEATHS 26				CENSORED DEATHS 0				TERMINAL 24				
UNCENSORED DEATH DAYS													
372	493	515	520	520	537	547	557	562	578	591	609	615	616
624	632	642	686	703	703	708	715	716	716	724	726		
CENSORED DEATH DAYS													
None													

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**DOSE = 30 MG/KG**

TOTAL 50	UNCENSORED DEATHS 23				CENSORED DEATHS 0				TERMINAL 27				
UNCENSORED DEATH DAYS													
75	453	455	554	557	583	587	591	605	614	627	632	679	687
694	703	704	708	708	710	715	721	722					
CENSORED DEATH DAYS													
None													

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**DOSE = 90 MG/KG**

TOTAL 50	UNCENSORED DEATHS 24				CENSORED DEATHS 0				TERMINAL 26				
UNCENSORED DEATH DAYS													
17	306	470	493	493	537	589	590	593	613	629	632	636	639
657	677	677	687	693	701	716	716	718	724				
CENSORED DEATH DAYS													
None													

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 MG/KG	98.0	98.0	98.0	98.0	98.0	96.0	96.0	92.0	74.0	60.0
10 MG/KG	100.0	100.0	100.0	100.0	98.0	98.0	88.0	78.0	66.0	48.0
30 MG/KG	98.0	98.0	98.0	98.0	98.0	94.0	94.0	82.0	76.0	54.0
90 MG/KG	98.0	98.0	98.0	96.0	96.0	94.0	88.0	82.0	70.0	52.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/KG	10 MG/KG	30 MG/KG	90 MG/KG
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	60.0%	48.0%	54.0%	52.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.745	P=0.240	P=0.654	P=0.463
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	614.7 (34.5)	612.6 (17.8)	612.3 (29.6)	591.8 (32.2)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	683.3 (15.8)	668.5 (12.4)	675.3 (15.8)	663.1 (18.1)

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

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