

**TDMS No.** 88148 - 06  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/SD

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

3,3',4,4'-Tetrachloroazobenzene

**CAS Number:** 14047-09-7

**Date Report Requested:** 06/10/2008

**Time Report Requested:** 07:37:02

**First Dose M/F:** 01/29/03 / 01/30/03

**Lab:** BAT

F1\_R8

**C Number:** C88148C  
**Lock Date:** 09/22/2005  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.0.0

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**MALE RATS**  
FIRST TERMINAL SACRIFICE AT 727 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0 MG/KG**

TOTAL 50                      UNCENSORED DEATHS 21                      CENSORED DEATHS 1                      TERMINAL 28  
UNCENSORED DEATH DAYS:  
274 398 420 496 513 549 567 575 592 617 627 639 640 650  
650 671 694 700 706 716 717  
CENSORED DEATH DAYS:  
496

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**DOSE = 10 MG/KG**

TOTAL 50                      UNCENSORED DEATHS 41                      CENSORED DEATHS 0                      TERMINAL 9  
UNCENSORED DEATH DAYS:  
62 176 332 380 427 454 467 471 486 499 500 504 514 521  
524 524 532 535 537 541 549 549 576 576 595 602 612 617  
626 627 635 637 644 657 671 674 682 689 690 698 705  
CENSORED DEATH DAYS:  
None

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**DOSE = 30 MG/KG**

TOTAL 50                      UNCENSORED DEATHS 45                      CENSORED DEATHS 1                      TERMINAL 4  
UNCENSORED DEATH DAYS:  
115 258 281 295 307 367 438 448 452 468 474 474 487 491  
497 533 554 554 562 562 573 573 574 574 580 587 588 602  
608 609 609 617 617 653 653 653 658 660 670 671 689 697  
707 712 712  
CENSORED DEATH DAYS:  
38

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**DOSE = 100 MG/KG**

TOTAL 50                      UNCENSORED DEATHS 47                      CENSORED DEATHS 1                      TERMINAL 2

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INDIVIDUAL SURVIVAL TIMES (DAYS)

UNCENSORED DEATH DAYS:

174	192	225	274	281	365	387	398	433	443	484	499	500	503
503	514	524	529	539	544	553	560	567	571	585	586	588	588
589	603	608	613	613	623	634	635	643	645	648	650	650	657
667	668	701	706	716									

CENSORED DEATH DAYS:

476

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**MALE RATS**  
FIRST TERMINAL SACRIFICE AT 727 DAYS

**KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)**

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	727(A)
0 MG/KG	100.0	100.0	100.0	98.0	94.0	94.0	90.0	81.8	69.5	57.2
10 MG/KG	98.0	96.0	96.0	94.0	92.0	84.0	60.0	48.0	32.0	18.0
30 MG/KG	100.0	98.0	95.9	89.8	87.8	75.5	67.3	42.9	22.4	8.2
100 MG/KG	100.0	98.0	94.0	88.0	84.0	77.9	59.5	39.0	14.4	4.1

(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)

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Lab: BAT

**MALE RATS**  
FIRST TERMINAL SACRIFICE AT 727 DAYS

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>0 MG/KG</b>	<b>10 MG/KG</b>	<b>30 MG/KG</b>	<b>100 MG/KG</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	57.2%	18.0%	8.2%	4.1%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001	P<0.001	P<0.001	P<0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	591.0 (25.4)	543.8 (20.7)	543.6 (20.0)	535.7 (19.7)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	665.3 (14.6)	576.8 (19.7)	548.2 (22.0)	542.2 (19.3)

- (A) FIRST TERMINAL SACRIFICE  
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Lab: BAT

**FEMALE RATS**  
FIRST TERMINAL SACRIFICE AT 727 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0 MG/KG**

TOTAL 50                      UNCENSORED DEATHS 24                      CENSORED DEATHS 1                      TERMINAL 25  
UNCENSORED DEATH DAYS:  
232 372 406 478 483 504 540 548 548 560 575 587 588 595  
636 649 660 674 674 684 696 700 706 712  
CENSORED DEATH DAYS:  
614

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**DOSE = 10 MG/KG**

TOTAL 50                      UNCENSORED DEATHS 20                      CENSORED DEATHS 0                      TERMINAL 30  
UNCENSORED DEATH DAYS:  
153 271 309 335 366 460 460 510 527 544 553 560 587 587  
589 589 606 621 705 722  
CENSORED DEATH DAYS:  
None

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**DOSE = 30 MG/KG**

TOTAL 50                      UNCENSORED DEATHS 29                      CENSORED DEATHS 2                      TERMINAL 19  
UNCENSORED DEATH DAYS:  
273 391 460 525 540 548 560 574 580 587 593 597 597 611  
612 615 628 630 634 644 649 659 668 673 688 710 716 720  
721  
CENSORED DEATH DAYS:  
229 439

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**DOSE = 100 MG/KG**

TOTAL 50                      UNCENSORED DEATHS 33                      CENSORED DEATHS 0                      TERMINAL 17

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**FEMALE RATS**  
FIRST TERMINAL SACRIFICE AT 727 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

UNCENSORED DEATH DAYS:

314	378	401	467	481	523	536	551	558	560	588	590	608	616
617	630	632	632	649	658	671	679	684	684	684	689	693	693
705	705	718	721	725									

CENSORED DEATH DAYS:

None

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FIRST TERMINAL SACRIFICE AT 727 DAYS

**KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)**

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	727(A)
0 MG/KG	100.0	100.0	98.0	98.0	94.0	90.0	86.0	72.0	65.8	51.4
10 MG/KG	100.0	98.0	98.0	92.0	90.0	86.0	80.0	68.0	64.0	60.0
30 MG/KG	100.0	100.0	100.0	98.0	95.9	93.8	89.7	73.0	54.2	39.6
100 MG/KG	100.0	100.0	100.0	98.0	94.0	90.0	86.0	76.0	60.0	34.0

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FIRST TERMINAL SACRIFICE AT 727 DAYS

**SURVIVAL SUMMARY STATISTICS**

DOSE	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	51.4%	60.0%	39.6%	34.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.085	P=0.687N	P=0.390	P=0.196
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	575.3 (24.4)	502.7 (33.0)	600.1 (18.2)	607.3 (18.2)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	651.9 (15.8)	637.3 (20.4)	637.7 (16.5)	648.0 (14.4)

\*\*\* 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".  
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