

**Experiment Number:** 20314 - 03  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F 344/NCTR

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
Glycidamide  
**CAS Number:** 5694-00-8

**Date Report Requested:** 12/17/2014  
**Time Report Requested:** 07:40:57  
**First Dose M/F:** 05/30/05 / 05/30/05  
**Lab:** NCTR

**NTP Study Number:** C20314  
**Lock Date:** 11/01/2011  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.2\_002  
**PWG Approval Date:** NONE

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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 737 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

**DOSE = CONTROL WATER**

TOTAL 48	UNCENSORED DEATHS 27										CENSORED DEATHS 0			TERMINAL 21
UNCENSORED DEATH DAYS														
403	481	487	487	509	516	523	527	565	592	597	614	628	633	
634	635	675	688	698	702	708	709	711	724	725	725	733		
CENSORED DEATH DAYS														
None														

**DOSE = 0.0875 GLYCID**

TOTAL 48	UNCENSORED DEATHS 30										CENSORED DEATHS 0			TERMINAL 18
UNCENSORED DEATH DAYS														
323	466	468	477	502	515	559	572	574	592	603	624	625	632	
640	641	647	648	649	658	675	679	680	683	684	695	697	715	
717	718													
CENSORED DEATH DAYS														
None														

**DOSE = 0.175 GLYCID**

TOTAL 48	UNCENSORED DEATHS 33										CENSORED DEATHS 0			TERMINAL 15
UNCENSORED DEATH DAYS														
449	498	505	506	519	535	537	549	572	578	603	612	614	626	
631	640	646	653	653	667	670	670	675	681	682	684	686	691	
714	723	725	730	730										
CENSORED DEATH DAYS														
None														

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FIRST TERMINAL SACRIFICE AT 737 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0.35 GLYCID**

TOTAL 47		UNCENSORED DEATHS 40						CENSORED DEATHS 0				TERMINAL 7	
UNCENSORED DEATH DAYS													
418	485	488	551	556	569	574	578	584	585	586	586	588	589
604	604	632	634	635	635	645	655	669	674	677	680	682	684
691	692	696	698	702	703	717	718	719	722	725	732		
CENSORED DEATH DAYS													
None													

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**DOSE = 0.70 GLYCID**

TOTAL 48		UNCENSORED DEATHS 46						CENSORED DEATHS 0				TERMINAL 2	
UNCENSORED DEATH DAYS													
392	411	428	439	446	474	474	474	505	516	519	520	523	534
537	541	541	544	555	555	569	600	603	607	607	610	610	614
624	626	632	660	662	666	667	672	673	677	690	691	695	697
702	716	723	729										
CENSORED DEATH DAYS													
None													

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**MALE RATS**

FIRST TERMINAL SACRIFICE AT 737 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	737(A)
CONTROL WATER	100.0	100.0	100.0	100.0	97.9	95.8	83.3	77.1	66.7	43.8
0.0875 GLYCID	100.0	100.0	100.0	97.9	97.9	91.7	87.5	77.1	58.3	37.5
0.175 GLYCID	100.0	100.0	100.0	100.0	100.0	97.9	85.4	77.1	60.4	31.3
0.35 GLYCID	100.0	100.0	100.0	100.0	97.9	95.7	93.6	66.0	53.2	14.9
0.70 GLYCID	100.0	100.0	100.0	100.0	95.8	83.3	62.5	52.1	31.3	4.2

(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 737 DAYS

**SURVIVAL SUMMARY STATISTICS**

DOSE	CONTROL WATER	0.0875 GLYCID	0.175 GLYCID	0.35 GLYCID
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	43.8%	37.5%	31.3%	14.9%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001	P=0.536	P=0.280	P=0.005
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	615.9 (18.4)	611.9 (17.0)	625.9 (13.5)	634.1 (11.7)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	668.9 (13.5)	658.8 (13.7)	660.6 (11.9)	649.4 (11.3)

  

DOSE	0.70 GLYCID
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	4.2%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	585.9 (13.6)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	592.2 (13.7)

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Lab: NCTR

**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 737 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = CONTROL WATER**

TOTAL 48	UNCENSORED DEATHS 13								CENSORED DEATHS 0				TERMINAL 35
UNCENSORED DEATH DAYS													
432	544	550	573	579	613	620	628	672	687	690	715	722	
CENSORED DEATH DAYS													
None													

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**DOSE = 0.0875 GLYCID**

TOTAL 48	UNCENSORED DEATHS 22								CENSORED DEATHS 0				TERMINAL 26
UNCENSORED DEATH DAYS													
484	488	495	509	520	571	596	611	611	630	635	653	670	680
683	690	693	702	705	725	730	732						
CENSORED DEATH DAYS													
None													

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**DOSE = 0.175 GLYCID**

TOTAL 48	UNCENSORED DEATHS 21								CENSORED DEATHS 0				TERMINAL 27
UNCENSORED DEATH DAYS													
373	481	514	522	549	555	560	564	625	634	648	666	673	683
691	691	697	704	715	726	735							
CENSORED DEATH DAYS													
None													

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**DOSE = 0.35 GLYCID**

TOTAL 48	UNCENSORED DEATHS 31								CENSORED DEATHS 0				TERMINAL 17
UNCENSORED DEATH DAYS													
296	365	436	456	481	494	522	526	544	550	556	558	585	626
628	640	651	656	660	676	684	684	691	696	697	697	716	718
718	718	723											
CENSORED DEATH DAYS													
None													

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**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 737 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0.70 GLYCID**

TOTAL 48	UNCENSORED DEATHS 46				CENSORED DEATHS 0				TERMINAL 2				
UNCENSORED DEATH DAYS													
344	375	404	422	435	446	453	466	491	491	505	506	509	513
514	521	521	549	550	551	557	563	571	574	579	585	593	596
609	612	614	620	621	626	626	642	645	662	663	667	677	682
705	705	710	725										
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	737(A)
CONTROL WATER	100.0	100.0	100.0	100.0	100.0	97.9	95.8	89.6	83.3	72.9
0.0875 GLYCID	100.0	100.0	100.0	100.0	100.0	97.9	89.6	85.4	75.0	54.2
0.175 GLYCID	100.0	100.0	100.0	100.0	97.9	95.8	91.7	83.3	77.1	56.3
0.35 GLYCID	100.0	100.0	100.0	95.8	95.8	89.6	81.3	72.9	60.4	35.4
0.70 GLYCID	100.0	100.0	100.0	97.9	91.7	83.3	64.6	41.7	18.8	4.2

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**SURVIVAL SUMMARY STATISTICS**

DOSE	CONTROL WATER	0.0875 GLYCID	0.175 GLYCID	0.35 GLYCID
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	72.9%	54.2%	56.3%	35.4%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001	P=0.098	P=0.141	P<0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	617.3 (22.8)	627.9 (17.8)	619.3 (20.9)	601.5 (20.2)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	704.6 (9.8)	687.0 (11.3)	685.5 (12.4)	649.5 (16.1)

DOSE	0.70 GLYCID
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	4.2%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	565.1 (13.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	572.3 (14.1)

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

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