

**Experiment Number:** 20303-01  
**Test Type:** 14-DAY  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** Rat/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Vinylidene chloride  
**CAS Number:** 75-35-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 13:39:09  
**First Dose M/F:** NA / NA  
**Lab:** BNW

<b>C Number:</b>	C20303
<b>Lock Date:</b>	06/01/2005
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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First Dose M/F: NA / NA

Lab: BNW

Male RAT  
FIRST TERMINAL SACRIFICE AT 17 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

---

<b>DOSE = CONTROL</b>			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<hr/>			
<b>DOSE = 25 PPM</b>			
TOTAL 5	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 4
<b>UNCENSORED DEATH DAYS</b>			
10			
<b>CENSORED DEATH DAYS</b>			
none			
<hr/>			
<b>DOSE = 50 PPM</b>			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<hr/>			
<b>DOSE = 100 PPM</b>			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			

(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: BNW

Male RAT  
FIRST TERMINAL SACRIFICE AT 17 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

---

<b>DOSE = 200 PPM</b>					
TOTAL	5	UNCENSORED DEATHS	5	CENSORED DEATHS 0	TERMINAL 0
<b>UNCENSORED DEATH DAYS</b>					
2	2	2	2	2	
<b>CENSORED DEATH DAYS</b>					
none					
<hr/>					
<b>DOSE = 400PPM</b>					
TOTAL	5	UNCENSORED DEATHS	5	CENSORED DEATHS 0	TERMINAL 0
<b>UNCENSORED DEATH DAYS</b>					
1	2	2	2	2	
<b>CENSORED DEATH DAYS</b>					
none					

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First Dose M/F: NA / NA

Lab: BNW

Male RAT  
FIRST TERMINAL SACRIFICE AT 17 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	2	4	6	8	10	12	14	16	18	17(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25 PPM	100.0	100.0	100.0	100.0	80.0	80.0	80.0	80.0	80.0	80.0
50 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200 PPM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400PPM	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 Dose M/F: NA / NA

Lab: BNW

Male RAT  
FIRST TERMINAL SACRIFICE AT 17 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	25 PPM	50 PPM	100 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	80.0%	100.0%	100.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.000	P=1.000	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	.	10.0	.	.
	(.)	(.)	(.)	(.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	17.0	15.6	17.0	17.0
	(0.0)	(1.4)	(0.0)	(0.0)

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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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**First Dose M/F:** NA / NA

**Lab:** BNW

**Male RAT  
FIRST TERMINAL SACRIFICE AT 17 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>200 PPM</b>	<b>400PPM</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	0.0%	0.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.016	P=0.017
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	2.0 (.)	1.8 (0.2)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	2.0 (0.0)	1.8 (0.2)

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First Dose M/F: NA / NA

Lab: BNW

Female RAT  
FIRST TERMINAL SACRIFICE AT 17 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

---

<b>DOSE = CONTROL</b>			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<hr/>			
<b>DOSE = 25 PPM</b>			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<hr/>			
<b>DOSE = 50 PPM</b>			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<hr/>			
<b>DOSE = 100 PPM</b>			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			

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Lab: BNW

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FIRST TERMINAL SACRIFICE AT 17 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

---

DOSE = 200 PPM			
TOTAL 5	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 0
<b>UNCENSORED DEATH DAYS</b>			
2      2      2	2      2		
<b>CENSORED DEATH DAYS</b>			
none			

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DOSE = 400 PPM			
TOTAL 5	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 0
<b>UNCENSORED DEATH DAYS</b>			
2      2      2	2      4		
<b>CENSORED DEATH DAYS</b>			
none			

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DOSE	TIME (DAYS)									
	2	4	6	8	10	12	14	16	18	17(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
25 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
50 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200 PPM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400 PPM	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	25 PPM	50 PPM	100 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.000	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	.	.	.	.
	(.)	(.)	(.)	(.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	17.0	17.0	17.0	17.0
	(0.0)	(0.0)	(0.0)	(0.0)

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<b>DOSE</b>	<b>200 PPM</b>	<b>400 PPM</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	0.0%	0.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.016	P=0.009
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	2.0 (.)	2.4 (0.4)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	2.0 (0.0)	2.4 (0.4)

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

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