

Table 3. Particle size distribution

Group and dose : Vehicle control										
Stage	Cut-off size (μ m)	Amount collected (mg)								
		1st	2nd	3rd	4th	5th	6th	7th	8th	Total
3	14.9	0.01	0.00	0.00	0.05	0.00	0.07	0.03	0.03	0.19
4	8.9	0.01	0.06	0.02	0.07	0.04	0.06	0.12	0.06	0.44
5x	5.1	0.41	0.41	0.28	0.49	0.46	0.45	0.35	0.44	3.29
6	2.1	0.50	0.70	0.79	0.92	0.85	0.73	0.56	0.63	5.68
7	1.55	0.74	0.71	0.68	0.48	0.39	0.80	0.61	0.77	5.18
8	0.75	0.17	0.11	0.11	0.17	0.16	0.15	0.11	0.11	1.09
Filter	0.0	0.19	0.13	0.23	0.13	0.17	0.21	0.11	0.18	1.35
	Total	2.03	2.12	2.11	2.31	2.07	2.47	1.89	2.22	17.22

Calculation

Cut-off size (μ m)	% less than size (cumulative)								
	1st	2nd	3rd	4th	5th	6th	7th	8th	Total
14.9	99.5	100.0	100.0	97.8	100.0	97.2	98.4	98.6	98.9
8.9	99.0	97.2	99.1	94.8	98.1	94.7	92.1	95.9	96.3
5.1	78.8	77.8	85.8	73.6	75.8	76.5	73.5	76.1	77.2
2.1	54.2	44.8	48.3	33.8	34.8	47.0	43.9	47.7	44.3
1.55	17.7	11.3	16.1	13.0	15.9	14.6	11.6	13.1	14.2
0.75	9.4	6.1	10.9	5.6	8.2	8.5	5.8	8.1	7.8
MMAD	2.35	2.68	2.31	3.03	2.73	2.68	2.92	2.66	2.67
GSD	2.12	2.00	2.01	2.13	2.06	2.29	2.21	2.19	2.14

MMAD; Mass median aerodynamic diameter

GSD; Geometric standard deviation

Table 3. Particle size distribution (continued)

Group and dose : Fenitrothion 2mg/m³

Stage	Cut-off size (μ m)	Amount collected (mg)								Total
		1st	2nd	3rd	4th	5th	6th	7th	8th	
3	14.9	0.00	0.03	0.05	0.00	0.01	0.07	0.03	0.01	0.20
4	8.9	0.01	0.03	0.01	0.04	0.01	0.00	0.00	0.04	0.14
5x	5.1	0.19	0.25	0.27	0.31	0.27	0.30	0.29	0.27	2.15
6	2.1	0.72	0.67	0.85	0.69	0.73	0.78	0.65	0.66	5.75
7	1.55	0.93	0.79	0.53	0.73	0.73	0.74	0.80	0.70	5.95
8	0.75	0.24	0.19	0.30	0.27	0.14	0.26	0.24	0.21	1.85
Filter	0.0	0.19	0.23	0.30	0.19	0.12	0.25	0.21	0.22	1.71
Total		2.28	2.19	2.31	2.23	2.01	2.40	2.22	2.11	17.75

Calculation

Cut-off size (μ m)	% less than size (cumulative)								
	1st	2nd	3rd	4th	5th	6th	7th	8th	Total
14.9	100.0	98.6	97.8	100.0	99.5	97.1	98.6	99.5	98.9
8.9	99.6	97.3	97.4	98.2	99.0	97.1	98.6	97.6	98.1
5.1	91.2	85.8	85.7	84.3	85.6	84.6	85.6	84.8	86.0
2.1	59.6	55.3	48.9	53.4	49.3	52.1	56.3	53.6	53.6
1.55	18.9	19.2	26.0	20.6	12.9	21.3	20.3	20.4	20.1
0.75	8.3	10.5	13.0	8.5	6.0	10.4	9.5	10.4	9.6
MMAD	2.08	2.25	2.21	2.26	2.44	2.31	2.22	2.25	2.25
GSD	1.87	2.16	2.30	2.04	1.91	2.27	2.11	2.12	2.10

MMAD; Mass median aerodynamic diameter

GSD; Geometric standard deviation

Table 3. Particle size distribution (continued)

Group and dose : Fenitrothion 4mg/m³

Stage	Cut-off size (μ m)	Amount collected (mg)								
		1st	2nd	3rd	4th	5th	6th	7th	8th	Total
3	14.9	0.04	0.00	0.00	0.05	0.01	0.02	0.00	0.09	0.21
4	8.9	0.05	0.06	0.08	0.07	0.05	0.11	0.05	0.14	0.61
5x	5.1	0.37	0.49	0.42	0.48	0.46	0.44	0.44	0.46	3.56
6	2.1	0.54	0.65	0.61	0.55	0.56	0.59	0.81	0.81	5.12
7	1.55	0.59	0.68	0.66	0.64	0.65	0.60	0.29	0.27	4.38
8	0.75	0.00	0.12	0.09	0.18	0.12	0.07	0.11	0.13	0.82
Filter	0.0	0.00	0.12	0.02	0.17	0.15	0.02	0.11	0.13	0.72
	Total	1.59	2.12	1.88	2.14	2.00	1.85	1.81	2.03	15.42

Calculation

Cut-off size (μ m)	% less than size (cumulative)								
	1st	2nd	3rd	4th	5th	6th	7th	8th	Total
14.9	97.5	100.0	100.0	97.7	99.5	98.9	100.0	95.6	98.6
8.9	94.3	97.2	95.7	94.4	97.0	93.0	97.2	88.7	94.7
5.1	71.1	74.1	73.4	72.0	74.0	69.2	72.9	66.0	71.6
2.1	37.1	43.4	41.0	46.3	46.0	37.3	28.2	26.1	38.4
1.55	0.0	11.3	5.9	16.4	13.5	4.9	12.2	12.8	10.0
0.75	0.0	5.7	1.1	7.9	7.5	1.1	6.1	6.4	4.7
MMAD	3.46	2.78	3.06	2.75	2.68	3.33	3.02	3.50	3.04
GSD	1.88	2.02	1.87	2.32	2.13	1.96	1.99	2.34	2.09

MMAD; Mass median aerodynamic diameter

GSD; Geometric standard deviation

Table 3. Particle size distribution (continued)

Group and dose : Fenitrothion 8mg/m³

Stage	Cut-off size (μ m)	Amount collected (mg)								
		1st	2nd	3rd	4th	5th	6th	7th	8th	Total
3	14.9	0.00	0.00	0.00	0.01	0.02	0.06	0.01	0.03	0.13
4	8.9	0.01	0.07	0.04	0.07	0.00	0.04	0.05	0.05	0.33
5x	5.1	0.30	0.32	0.36	0.32	0.30	0.28	0.35	0.31	2.54
6	2.1	0.58	0.73	0.66	0.78	0.43	0.67	0.48	0.53	4.86
7	1.55	0.65	0.44	0.42	0.41	0.77	0.69	0.78	0.82	4.98
8	0.75	0.16	0.27	0.20	0.18	0.21	0.23	0.21	0.23	1.69
Filter	0.0	0.27	0.31	0.30	0.29	0.33	0.14	0.31	0.33	2.28
	Total	1.97	2.14	1.98	2.06	2.06	2.11	2.19	2.30	16.81

Calculation

Cut-off size (μ m)	% less than size (cumulative)								
	1st	2nd	3rd	4th	5th	6th	7th	8th	Total
14.9	100.0	100.0	100.0	99.5	99.0	97.2	99.5	98.7	99.2
8.9	99.5	96.7	98.0	96.1	99.0	95.3	97.3	96.5	97.3
5.1	84.3	81.8	79.8	80.6	84.5	82.0	81.3	83.0	82.2
2.1	54.8	47.7	46.5	42.7	63.6	50.2	59.4	60.0	53.2
1.55	21.8	27.1	25.3	22.8	26.2	17.5	23.7	24.3	23.6
0.75	13.7	14.5	15.2	14.1	16.0	6.6	14.2	14.3	13.6
MMAD	2.12	2.20	2.24	2.37	1.95	2.53	2.11	2.10	2.20
GSD	2.13	2.30	2.30	2.31	2.29	2.21	2.31	2.36	2.29

MMAD; Mass median aerodynamic diameter

GSD; Geometric standard deviation

Table 4. Temperature in exposure chamber

Days of exposure	Group and dose Temperature (°C)	Vehicle control		Fenitrothion 2mg/m ³		Fenitrothion 4mg/m ³		Fenitrothion 8mg/m ³	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1		25.0	22.8	23.6	22.0	23.6	22.2	23.6	22.2
2		25.0	22.9	23.6	22.1	23.6	22.1	23.6	22.1
3		25.1	23.3	23.7	22.0	23.7	22.1	23.6	22.1
4		24.9	23.3	23.5	22.3	23.5	22.0	23.5	21.9
5		25.1	23.0	23.7	22.0	23.7	22.1	23.7	22.2
8		25.0	23.1	23.5	22.1	23.4	21.8	23.5	22.0
9		25.1	23.2	23.5	22.1	23.5	22.0	23.5	22.0
10		25.1	23.0	23.6	22.0	23.5	21.9	23.5	22.0
11		25.0	22.7	23.5	22.1	23.4	22.1	23.4	22.2
12		24.9	22.9	23.5	22.1	23.5	22.0	23.5	22.0
15		25.2	22.7	23.5	22.0	23.5	21.9	23.5	21.8
16		25.1	23.0	23.5	22.1	23.6	22.3	23.5	22.1
17		25.1	22.8	23.5	21.9	23.5	22.0	23.5	21.9
18		25.1	23.2	23.6	22.2	23.5	22.0	23.6	22.0
19		25.3	22.7	23.5	21.9	23.5	22.0	23.5	22.0
22		25.0	23.0	23.6	22.1	23.6	22.2	23.6	22.1
23		25.1	22.3	23.5	22.3	23.6	22.3	23.6	22.1
24		25.0	22.9	23.5	22.0	23.5	22.1	23.6	22.1
25		25.0	22.8	23.5	21.9	23.5	22.0	23.6	22.0
26		25.1	22.9	23.5	21.7	23.5	21.7	23.6	21.9
Mean		25.1	22.9	23.5	22.0	23.5	22.0	23.6	22.0
S.D.		0.09	0.24	0.07	0.14	0.08	0.15	0.07	0.11
Max. / Min.		25.3	22.3	23.7	21.7	23.7	21.7	23.7	21.8

Table 5. Relative humidity in exposure chamber

Days of exposure	Group and dose Humidity (%)	Vehicle control		Fenitrothion 2mg/m ³		Fenitrothion 4mg/m ³		Fenitrothion 8mg/m ³	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1		68.8	31.2	65.1	19.5	36.8	24.9	70.0	21.9
2		68.6	32.3	68.4	19.5	46.3	26.5	63.4	24.1
3		64.7	30.6	64.9	21.3	42.1	26.0	61.4	20.4
4		64.8	30.9	65.7	22.0	40.3	28.8	60.6	23.7
5		64.6	30.0	66.4	21.5	44.4	23.8	60.6	21.1
8		69.7	28.3	64.3	18.1	59.4	27.8	59.7	19.6
9		68.9	27.2	67.7	18.6	67.3	26.3	66.3	21.6
10		65.7	28.3	64.4	19.1	64.6	31.9	63.8	23.0
11		65.5	28.6	65.4	20.0	63.2	29.3	62.7	23.8
12		64.8	30.2	65.0	19.2	63.1	28.5	62.1	24.2
15		63.0	26.9	65.5	20.6	64.3	28.7	60.8	21.5
16		65.7	26.9	66.6	21.1	63.1	26.5	63.8	21.9
17		66.4	25.9	66.4	20.4	63.6	26.2	62.8	23.0
18		65.4	27.8	65.2	20.9	64.3	25.3	62.9	21.7
19		64.6	25.5	65.5	22.5	63.9	27.2	62.1	22.7
22		67.0	28.0	62.7	19.4	58.9	25.7	55.2	18.2
23		66.6	27.3	67.3	17.7	62.1	22.9	63.8	19.2
24		76.3	29.4	74.5	18.1	73.3	26.2	70.7	21.1
25		64.7	27.4	63.5	17.1	63.4	25.4	61.8	20.6
26		64.1	28.0	65.5	19.5	64.2	26.9	62.8	23.1
Mean		66.5	28.5	66.0	19.8	58.4	26.7	62.9	21.8
S.D.		2.93	1.84	2.41	1.48	10.28	2.04	3.36	1.67
Max. / Min.		76.3	25.5	74.5	17.1	73.3	22.9	70.7	18.2

Table 6. Oxygen concentration in exposure chamber

Days of exposure	Group and dose Oxygen concentration(%)	Vehicle control		Fenitrothion 2mg/m ³		Fenitrothion 4mg/m ³		Fenitrothion 8mg/m ³	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1		20.6	20.5	20.8	20.7	20.7	20.6	20.8	20.8
2		20.5	20.5	20.8	20.7	20.6	20.5	20.8	20.8
3		20.5	20.5	20.7	20.7	20.6	20.4	20.7	20.6
4		20.5	20.5	20.7	20.7	20.6	20.6	20.8	20.7
5		20.5	20.5	20.8	20.7	20.6	20.6	20.7	20.6
8		20.3	20.3	20.8	20.7	20.6	20.6	20.7	20.7
9		20.5	20.5	20.7	20.7	20.5	20.5	20.7	20.7
10		20.5	20.4	20.7	20.5	20.5	20.5	20.7	20.6
11		20.5	20.4	20.7	20.7	20.6	20.6	20.8	20.7
12		20.5	20.3	20.7	20.6	20.6	20.6	20.7	20.7
15		20.5	20.4	20.7	20.6	20.6	20.5	20.7	20.6
16		20.4	20.4	20.7	20.5	20.5	20.5	20.7	20.6
17		20.5	20.5	20.7	20.6	20.6	20.5	20.7	20.7
18		20.4	20.3	20.5	20.4	20.4	20.4	20.7	20.6
19		20.4	20.4	20.7	20.7	20.6	20.6	20.7	20.6
22		20.5	20.4	20.7	20.7	20.6	20.6	20.7	20.6
23		20.5	20.4	20.7	20.6	20.5	20.5	20.8	20.7
24		20.5	20.4	20.6	20.6	20.5	20.5	20.7	20.7
25		20.5	20.4	20.8	20.6	20.7	20.6	20.6	20.5
26		20.4	20.4	20.7	20.7	20.5	20.5	20.7	20.6
Mean		20.5	20.4	20.7	20.6	20.6	20.5	20.7	20.7
S.D.		0.06	0.07	0.07	0.09	0.07	0.07	0.05	0.08
Max. / Min.		20.6	20.3	20.8	20.4	20.7	20.4	20.8	20.5

Table 7. Clinical signs - summary of findings

Sex : Male

Group and dose	Findings	Day 1		Day 2		Day 3		Day 4		Day 5		Day 6		Day 7		
		B	D	A	B	D	A	B	D	A	B	D	A	B	D	A
Vehicle control	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (head)															
	Stains (around eyes)															
Fenitrothion 2mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	4	5	5	5	5	5	5	5	5	5	5	4	5
	Wet fur (lumbar)			1												
	Scab (base of tail)															1
Fenitrothion 4mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (lumbar)															
	Stains (around eyes)															
Fenitrothion 8mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Stains (around eyes)															
	Loss of hair (head)															

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Male

Group and dose	Findings	Day 8		Day 9		Day 10		Day 11		Day 12		Day 13	Day 14
		B	D	A	B	D	A	B	D	A	B	D	A
Vehicle control	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (head)												
	Stains (around eyes)												1
Fenitrothion 2mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (lumber)												
	Scab (base of tail)												1
Fenitrothion 4mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (lumber)												
	Stains (around eyes)												
Fenitrothion 8mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5
	Stains (around eyes)												
	Loss of hair (head)												

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Male

Group and dose	Findings	Day 15		Day 16		Day 17		Day 18		Day 19		Day 20	Day 21
		B	D	A	B	D	A	B	D	A	B	D	A
Vehicle control	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (head)												
	Stains (around eyes)												
Fenitrothion 2mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	4	5	4	4	5	5	5	5	5	5	5	5
	Wet fur (tumber)												
	Scab (base of tail)	1	1	1	1	1	1						
Fenitrothion 4mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (tumber)												
	Stains (around eyes)												
Fenitrothion 8mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5
	Stains (around eyes)												
	Loss of hair (head)												

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Male

Group and dose	Findings	Day 22			Day 23			Day 24			Day 25			Day 26		
		B	D	A	B	D	A	B	D	A	B	D	A	B	D	A
Vehicle control	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign															
	Wet fur (head)															
	Stains (around eyes)															
Fenitrothion 2mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign															
	Wet fur (lumber)															
	Scab (base of tail)															
Fenitrothion 4mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign															
	Wet fur (lumber)															
	Stains (around eyes)															
Fenitrothion 8mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign															
	Stains (around eyes)															
	Loss of hair (head)															

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Female

Group and dose	Findings	Day 1		Day 2		Day 3		Day 4		Day 5		Day 6	Day 7
		B	D	A	B	D	A	B	D	A	B	D	A
Vehicle control	<i>No. of Animals</i>	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	4	5	5	4	5	5	4	5	5	5
	Wet fur (ventral neck)												
	Wet fur (abdomen)	1			1								
	Wet fur (lumbar)				1				2				
	Wet fur (back)				1								
	Stains (abdomen)						3						
	Stains (lumbar)						1						
	Stains (back)						1						
	Scab (base of tail)						1						
Penitrothion 2mg/m ³	<i>No. of Animals</i>	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	3	5	5	2	5	5	3	5	5	2
	Wet fur (head)												1
	Wet fur (face)												1
	Wet fur (ventral neck)						1						1
	Wet fur (thorax)								1				1
	Wet fur (abdomen)						1		1				1
	Wet fur (lumbar)						1		1				3
	Wet fur (back)	2			2		2		2				1
	Wet fur (dorsal neck)	1			1		1		2				1
	Wet fur (dorsal neck)	1			1		1						1
	Stains (around eyes)												1
	Stains (lumbar)												1
	Stains (back)												1
	Loss of hair (head)												1

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Female

Group and dose	Findings	Day 1			Day 2			Day 3			Day 4			Day 5			Day 6			Day 7		
		B	D	A	B	D	A	B	D	A	B	D	A	B	D	A	B	D	A	B	D	A
Fenitrothion 4mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	2	5	5	1	5	5	2	5	5	1	5	5	2	5	5	2	4	4	4
	Wet fur (head)												1									
	Wet fur (face)									1												
	Wet fur (ventral neck)												1									
	Wet fur (thorax)												2									
	Wet fur (abdomen)			2			3			2			3			2						
	Wet fur (lumbar)			3			4			3			4			3						
	Wet fur (back)						1						3									
	Wet fur (dorsal neck)												1									
	Stains (around eyes)																					
	Stains (lumbar)									2												
	Scab (dorsal neck)																					
	Scab (base of tail)																					
Fenitrothion 8mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	1	5	5	5	5	5	2	5	5	2	5	5	3	5	5	3	5	5	5
	Wet fur (head)																					
	Wet fur (face)			1			1															
	Wet fur (ventral neck)			1																		
	Wet fur (thorax)			1																		
	Wet fur (abdomen)			3			4			1												2
	Wet fur (lumbar)			3			4			1			3									
	Wet fur (back)			1			4						1									
	Wet fur (dorsal neck)						1															
	Stains (lumbar)									3												

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Female

Group and dose	Findings	Day 8		Day 9		Day 10		Day 11		Day 12		Day 13	Day 14
		B	D	A	B	D	A	B	D	A	B	D	A
Vehicle control	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	4	5	5	5	5	5	5	5	5	5
	Wet fur (ventral neck)												
	Wet fur (abdomen)												
	Wet fur (lumber)												
	Wet fur (back)												
	Stains (abdomen)												
	Stains (lumber)												
	Stains (back)												
	Scab (base of tail)												
Fenitrothion 2mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (head)												
	Wet fur (face)												
	Wet fur (ventral neck)												
	Wet fur (thorax)												
	Wet fur (abdomen)												
	Wet fur (lumber)												
	Wet fur (back)												
	Wet fur (dorsal neck)												
	Stains (around eyes)												
	Stains (lumber)												
	Stains (back)												
Loss of hair (head)													
				1	1	1	1	1	1	1	1	1	1

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Female

Group and dose	Findings	Day 8		Day 9		Day 10		Day 11		Day 12		Day 13	Day 14
		B	D	A	B	D	A	B	D	A	B	D	A
Fenitrothion 4mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	4	5	3	4	5	3	4	5	3	3	5	3
	Wet fur (head)						1						
	Wet fur (face)						1						
	Wet fur (ventral neck)							1					
	Wet fur (thorax)							2					
	Wet fur (abdomen)	1			4		1		1				
	Wet fur (lumbar)	1			1		1		2				
	Wet fur (back)												
	Wet fur (dorsal neck)												
	Stains (around eyes)												
	Stains (lumbar)												
	Scab (dorsal neck)												
	Scab (base of tail)	1	1	1	1	1	2	1	1	1	1	1	1
Fenitrothion 8mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	4	5	5	4	5	5	5	5	4	5
	Wet fur (head)												
	Wet fur (face)												
	Wet fur (ventral neck)												
	Wet fur (thorax)	1											
	Wet fur (abdomen)	1					1						
	Wet fur (lumbar)												1
	Wet fur (back)												
	Wet fur (dorsal neck)												
	Stains (lumbar)												

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Female

Group and dose	Findings	Day 15		Day 16		Day 17		Day 18		Day 19		Day 20	Day 21	
		B	D	A	B	D	A	B	D	A	B	D	A	
Vehicle control	<i>No. of Animals</i>	5	5	5	5	5	5	5	5	5	5	5	5	
	No abnormal sign													
	Wet fur (ventral neck)													
	Wet fur (abdomen)												1	
	Wet fur (lumber)												1	
	Wet fur (back)													
	Stains (abdomen)													
	Stains (lumber)													
	Stains (back)													
	Scab (base of tail)													
Fenitrothion 2mg/m ³	<i>No. of Animals</i>	5	5	5	5	5	5	5	5	5	5	5	5	
	No abnormal sign	4	5	4	4	5	3	4	5	3	4	5	4	
	Wet fur (head)												1	
	Wet fur (face)													
	Wet fur (ventral neck)	1											1	
	Wet fur (thorax)	1											1	
	Wet fur (abdomen)	1								1			1	
	Wet fur (lumber)	1					2		2				1	
	Wet fur (back)	1					1						1	
	Wet fur (dorsal neck)	1					1						1	
	Stains (around eyes)													
	Stains (lumber)													
	Stains (back)													
	Loss of hair (head)	1												1

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Female

Group and dose	Findings	Day 15		Day 16		Day 17		Day 18		Day 19		Day 20	Day 21			
		B	D	A	B	D	A	B	D	A	B	D	A	B	D	A
Fenitrothion 4mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	4	5	2	4	5	3	4	5	4	4	5	3	4	5	4
	Wet fur (head)	1														
	Wet fur (face)	1														
	Wet fur (ventral neck)															
	Wet fur (thorax)															
	Wet fur (abdomen)	1			2					1						
	Wet fur (lumbar)	1			2					2						1
	Wet fur (back)	3														
	Wet fur (dorsal neck)	1														
	Stains (around eyes)	1														
	Stains (lumbar)															
	Scab (dorsal neck)															
	Scab (base of tail)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fenitrothion 8mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (head)															
	Wet fur (face)	1														
	Wet fur (ventral neck)															
	Wet fur (thorax)															
	Wet fur (abdomen)	1														1
	Wet fur (lumbar)	1														2
	Wet fur (back)															
	Wet fur (dorsal neck)															
	Stains (lumbar)															

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Female

Group and dose	Findings	Day 22		Day 23		Day 24		Day 25		Day 26		
		B	D	A	B	D	A	B	D	A	B	D
Vehicle control	No. of Animals	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	4	5
	Wet fur (ventral neck)											1
	Wet fur (abdomen)											
	Wet fur (lumber)											
	Wet fur (back)											
	Stains (abdomen)											
	Stains (lumber)											
	Stains (back)											
	Scab (base of tail)											
Fenitrothion 2mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	4	5	4	4	5	4	5	5	5	5	4
	Wet fur (head)											
	Wet fur (face)											
	Wet fur (ventral neck)											1
	Wet fur (thorax)											1
	Wet fur (abdomen)											
	Wet fur (lumber)											
	Wet fur (back)											
	Wet fur (dorsal neck)											1
	Stains (around eyes)											1
	Stains (lumber)											
	Stains (back)											
	Loss of hair (head)			1	1	1	1	1				

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 7. Clinical signs - summary of findings (continued)

Sex : Female

Group and dose	Findings	Day 22			Day 23			Day 24			Day 25			Day 26		
		B	D	A	B	D	A	B	D	A	B	D	A	B	D	A
Fenitrothion 4mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	4	5	4	4	5	4	4	5	4	4	5	4	4	5	3
	Wet fur (head)															
	Wet fur (face)															1
	Wet fur (ventral neck)															1
	Wet fur (thorax)															1
	Wet fur (abdomen)															1
	Wet fur (lumbar)															
	Wet fur (back)															
	Wet fur (dorsal neck)															
	Stains (around eyes)															1
	Stains (lumbar)															
Scab (dorsal neck)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Scab (base of tail)																
Fenitrothion 8mg/m ³	No. of Animals	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	No abnormal sign	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	Wet fur (head)															
	Wet fur (face)															
	Wet fur (ventral neck)															
	Wet fur (thorax)															
	Wet fur (abdomen)															1
	Wet fur (lumbar)															1
	Wet fur (back)															
	Wet fur (dorsal neck)															
	Stains (lumbar)															

The number of animals noted with clinical signs.

B : Before exposure. D : During exposure. A : After exposure.

Table 8. Body weights - group mean values

Sex: Male

Group and dose	Days of exposure					
	1	8	15	22	26	
Vehicle control	197 ± 10.5 (5)	242 ± 14.6 (5)	287 ± 17.9 (5)	323 ± 25.6 (5)	340 ± 32.6 (5)	
Fenitrothion 2mg/m ³	193 ± 10.8 (5)	237 ± 13.7 (5)	274 ± 18.3 (5)	309 ± 23.1 (5)	320 ± 21.1 (5)	
Fenitrothion 4mg/m ³	198 ± 10.3 (5)	243 ± 9.7 (5)	287 ± 9.7 (5)	323 ± 13.0 (5)	339 ± 12.1 (5)	
Fenitrothion 8mg/m ³	197 ± 11.0 (5)	241 ± 13.9 (5)	286 ± 17.5 (5)	324 ± 18.8 (5)	340 ± 22.3 (5)	

Mean ± SD, g. (n)

Table 8. Body weights - group mean values (continued)

Sex: Female

Group and dose	Days of exposure				
	1	8	15	22	26
Vehicle control	150	164	184	200	208
	± (5)	± (5)	± (5)	± (5)	± (5)
Fenitrothion 2mg/m ³	149	168	185	201	207
	± (5)	± (5)	± (5)	± (5)	± (5)
Fenitrothion 4mg/m ³	152	171	192	207	213
	± (5)	± (5)	± (5)	± (5)	± (5)
Fenitrothion 8mg/m ³	152	173	194	206	214
	± (5)	± (5)	± (5)	± (5)	± (5)

Mean ± SD, g, (n)

Table 9. Incremental body weight gains - group mean values

Sex: Male

Group and dose	Initial body weight	Days of exposure			Total body weight gain
		8	15	26	
Vehicle control	197 ± 10.5 (5)	45 ± 6.0 (5)	45 ± 4.6 (5)	36 ± 8.4 (5)	17 ± 7.0 (5) 143 ± 22.8 (5)
Fenitrothion 2mg/m ³	193 ± 10.8 (5)	44 ± 3.4 (5)	37 ± 5.1 (5)	35 ± 9.4 (5)	11 ± 5.7 (5) 127 ± 14.4 (5)
Fenitrothion 4mg/m ³	198 ± 10.3 (5)	44 ± 4.2 (5)	44 ± 3.4 (5)	36 ± 5.0 (5)	16 ± 2.8 (5) 141 ± 12.1 (5)
Fenitrothion 8mg/m ³	197 ± 11.0 (5)	44 ± 8.6 (5)	45 ± 5.3 (5)	39 ± 7.6 (5)	16 ± 4.3 (5) 143 ± 18.0 (5)

Mean ± SD, g, (n)

Table 9. Incremental body weight gains - group mean values (continued)

Sex: Female

Group and dose	Initial body weight	Days of exposure			Total body weight gain
		8	15	22	
Vehicle control	150 ± 6.4 (5)	14 ± 5.5 (5)	20 ± 5.9 (5)	16 ± 5.4 (5)	58 ± 1.9 (5)
Fenitrothion 2mg/m ³	149 ± 6.2 (5)	19 ± 4.3 (5)	18 ± 4.4 (5)	16 ± 9.2 (5)	58 ± 2.4 (5)
Fenitrothion 4mg/m ³	152 ± 7.2 (5)	19 ± 3.9 (5)	21 ± 3.8 (5)	15 ± 4.7 (5)	61 ± 3.0 (5)
Fenitrothion 8mg/m ³	152 ± 6.9 (5)	21 ± 4.8 (5)	21 ± 3.6 (5)	12 ± 7.2 (5)	62 ± 5.2 (5)
Mean ± SD, g, (n)					

Table 10. Food consumption - group mean values

Sex: Male

Group and dose	Days of exposure			
	3	10	17	24
Vehicle control	19 ± 1.4 (2)	20 ± 0.0 (2)	23 ± 0.7 (2)	23 ± 2.8 (2)
Fenitrothion 2mg/m ³	19 ± 0.0 (2)	20 ± 0.0 (2)	22 ± 0.0 (2)	20 ± 1.4 (2)
Fenitrothion 4mg/m ³	19 ± 0.7 (2)	21 ± 0.7 (2)	22 ± 0.7 (2)	22 ± 0.0 (2)
Fenitrothion 8mg/m ³	20 ± 0.0 (2)	20 ± 2.8 (2)	24 ± 2.1 (2)	22 ± 0.7 (2)

Mean ± SD, g/animal/day, (n)

Days represent the terminal day of the measurement period.

Table 10. Food consumption - group mean values (continued)

Sex: Female

Group and dose	Days of exposure			
	3	10	17	24
Vehicle control	15 ± (2)	16 ± (2)	16 ± (2)	16 ± (2)
Fenitrothion 2mg/m ³	15 ± (2)	15 ± (2)	15 ± (2)	14 ± (2)
Fenitrothion 4mg/m ³	15 ± (2)	15 ± (2)	15 ± (2)	15 ± (2)
Fenitrothion 8mg/m ³	16 ± (2)	16 ± (2)	16 ± (2)	16 ± (2)

Mean ± SD, g/animal/day, (n)

Days represent the terminal day of the measurement period.

Table 11. Urinalysis - summary of findings

Sex: Male

Group and dose	No. of Animals	PH									Glucose						Protein				
		5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	>9	-	+/-	1+	2+	3+	-	+/-	1+	2+	3+	
Vehicle control	5	0	0	0	1	0	0	1	0	3	5	0	0	0	0	0	2	0	3	0	0
Fenitrothion 2mg/m ³	5	0	0	0	2	0	0	0	1	2	5	0	0	0	0	3	1	0	1	0	
Fenitrothion 4mg/m ³	5	0	0	0	0	0	1	3	0	1	5	0	0	0	0	4	0	1	0	0	
Fenitrothion 8mg/m ³	5	0	0	0	1	0	1	0	1	2	5	0	0	0	0	3	2	0	0	0	

Table 11. Urinalysis - summary of findings (continued)

Sex: Male

Group and dose	No. of Animals	Occult blood			Ketone bodies			Bilirubin			Urobilinogen									
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+	0.1	1.0	2.0	4.0	>=8				
Vehicle control	5	4	0	1	0	0	2	2	1	0	0	5	0	0	0	4	1	0	0	0
Fenitrothion 2mg/m ³	5	5	0	0	0	0	3	1	1	0	0	5	0	0	0	4	1	0	0	0
Fenitrothion 4mg/m ³	5	5	0	0	0	0	3	2	0	0	0	5	0	0	0	5	0	0	0	0
Fenitrothion 8mg/m ³	5	4	1	0	0	0	2	2	1	0	0	5	0	0	0	5	0	0	0	0

Table 11. Urinalysis - summary of findings (continued)

Sex: Female

Group and dose	No. of Animals	PH										Glucose			Protein											
		5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	>=9	-	+/-	+	2+	3+	-	+/-	+	2+	3+						
Vehicle control	5	0	0	0	0	0	0	1	2	2	2	2	2	2	5	0	0	0	0	0	0	4	0	1	0	0
Fenitrothion 2mg/m ³	5	0	0	0	0	0	2	0	0	3	0	0	0	0	5	0	0	0	0	0	0	2	1	2	0	0
Fenitrothion 4mg/m ³	5	0	0	0	0	0	0	1	2	2	2	2	2	2	5	0	0	0	0	0	0	3	1	1	0	0
Fenitrothion 8mg/m ³	5	0	0	0	1	0	0	2	2	0	2	2	0	0	5	0	0	0	0	0	0	5	0	0	0	0

Table 11. Urinalysis - summary of findings (continued)

Sex: Female

Group and dose	No. of Animals		Occult blood				Ketone bodies				Bilirubin				Urobilinogen							
	-	+/-	-	+/-	1+	2+	3+	-	1+	2+	3+	-	1+	2+	3+	0	1	2	3	4	>8	
Vehicle control	5	5	0	0	0	0	0	4	1	0	0	0	5	0	0	0	4	1	0	0	0	0
Fenitrothion 2mg/m ³	5	5	0	0	0	0	0	3	2	0	0	0	5	0	0	0	2	3	0	0	0	0
Fenitrothion 4mg/m ³	5	5	0	0	0	0	0	3	2	0	0	0	5	0	0	0	5	0	0	0	0	0
Fenitrothion 8mg/m ³	5	5	0	0	0	0	0	5	0	0	0	0	5	0	0	0	5	0	0	0	0	0

Table 12. Ophthalmology - summary of findings

Before mydriasis

Findings	Male		
	Vehicle control	Fenitrothion 2mg/m ³	Fenitrothion 8mg/m ³
No remarkable findings	5/ 5	5/ 5	5/ 5
The number of animals noted with an observation / The number of animals examined	5/ 5	5/ 5	5/ 5

Table 12. Ophthalmology - summary of findings (continued)

Findings	Female		
	Vehicle control	Fenitrothion 2mg/m ³	Fenitrothion 4mg/m ³ Fenitrothion 8mg/m ³
No. remarkable findings	5/ 5	5/ 5	5/ 5
The number of animals noted with an observation / The number of animals examined	5/ 5	5/ 5	5/ 5

Table 12. Ophthalmology - summary of findings (continued)

Findings	Male		
	Vehicle control	Fenitrothion 2mg/m ³	Fenitrothion 8mg/m ³
No remarkable findings	5/5	5/5	5/5
The number of animals noted with an observation / The number of animals examined	5/5	5/5	5/5

Table 12. Ophthalmology - summary of findings (continued)

Findings	Female	
	Vehicle control Fenitrothion 2mg/m ³	Fenitrothion 8mg/m ³
After mydriasis		
No remarkable findings	5/ 5	5/ 5
The number of animals noted with an observation / The number of animals examined	5/ 5	5/ 5

Table 13. Hematology - group mean values

Sex: Male

Group and dose	RBC ($\times 10^6 / \mu\text{L}$)	HGB (g/dL)	HCT (%)	MCV (fL)	MCH (pg)	MCHC (g/dL)	RET ($\times 10^4 / \mu\text{L}$)
Vehicle control	7.45 ± 0.553 (5)	14.3 ± 0.66 (5)	43.3 ± 2.42 (5)	58.3 ± 1.49 (5)	19.3 ± 0.69 (5)	33.0 ± 0.43 (5)	17.54 ± 1.769 (5)
Fenitrothion 2mg/m ³	7.84 ± 0.183 (5)	14.9 ± 0.52 (5)	45.0 ± 1.46 (5)	57.4 ± 1.17 (5)	19.0 ± 0.51 (5)	33.0 ± 0.44 (5)	18.56 ± 1.786 (5)
Fenitrothion 4mg/m ³	7.77 ± 0.563 (5)	14.7 ± 0.41 (5)	44.5 ± 1.64 (5)	57.3 ± 2.02 (5)	19.0 ± 0.86 (5)	33.0 ± 0.46 (5)	18.66 ± 1.585 (5)
Fenitrothion 8mg/m ³	7.74 ± 0.357 (5)	14.5 ± 0.41 (5)	44.4 ± 0.77 (5)	57.5 ± 2.46 (5)	18.8 ± 0.80 (5)	32.7 ± 0.69 (5)	17.20 ± 2.534 (5)

Mean \pm SD, (n)

Table 13. Hematology - group mean values (continued)

Sex: Male

Group and dose	WBC ($\times 10^3 / \mu\text{L}$)	Neut ($\times 10^3 / \mu\text{L}$)	Lymp ($\times 10^3 / \mu\text{L}$)	Mono ($\times 10^3 / \mu\text{L}$)	Eos ($\times 10^3 / \mu\text{L}$)	Baso ($\times 10^3 / \mu\text{L}$)
Vehicle control	8.03 ± (5)	1.09 ± (5)	6.79 ± (5)	0.08 ± (5)	0.05 ± (5)	0.02 ± (5)
Fenitrothion 2mg/m ³	5.83 ± (5)	0.99 ± (5)	4.69* ± (5)	0.09 ± (5)	0.05 ± (5)	0.01 ± (5)
Fenitrothion 4mg/m ³	8.64 ± (5)	1.43 ± (5)	7.03 ± (5)	0.10 ± (5)	0.06 ± (5)	0.02 ± (5)
Fenitrothion 8mg/m ³	6.11 ± (5)	0.86 ± (5)	5.13 ± (5)	0.06 ± (5)	0.05 ± (5)	0.01 ± (5)

Mean ± SD, (n)

*: Significantly different from the Vehicle control group (p<0.05)

Table 13. Hematology - group mean values (continued)

Sex: Male

Group and dose	PLT ($\times 10^3 / \mu\text{L}$)	PT (SEC)	APT (SEC)	FIB (mg/dL)
Vehicle control	1281 \pm 197.2 (5)	16.7 \pm 1.15 (5)	19.8 \pm 1.66 (5)	231.1 \pm 16.26 (5)
Penitrothion 2mg/m ³	1274 \pm 143.4 (5)	17.0 \pm 2.24 (5)	20.3 \pm 2.26 (5)	242.6 \pm 12.36 (5)
Penitrothion 4mg/m ³	1275 \pm 166.4 (5)	17.6 \pm 2.52 (5)	19.4 \pm 2.59 (5)	236.1 \pm 17.26 (5)
Penitrothion 8mg/m ³	1244 \pm 193.8 (5)	16.0 \pm 0.56 (5)	18.8 \pm 0.58 (5)	243.4 \pm 18.95 (5)

Mean \pm SD, (n)

Table 13. Hematology - group mean values (continued)

Sex: Female

Group and dose	RBC ($\times 10^6 / \mu\text{L}$)	HGB (g/dL)	HCT (%)	MCV (fL)	MCH (pg)	MCHC (g/dL)	RET ($\times 10^4 / \mu\text{L}$)
Vehicle control	7.79 \pm 0.174 (5)	14.7 \pm 0.16 (5)	43.3 \pm 0.55 (5)	55.5 \pm 1.27 (5)	18.9 \pm 0.58 (5)	34.0 \pm 0.44 (5)	15.21 \pm 4.021 (5)
Fenitrothion 2mg/m ³	7.95 \pm 0.173 (5)	14.9 \pm 0.55 (5)	43.8 \pm 1.56 (5)	55.1 \pm 1.53 (5)	18.7 \pm 0.50 (5)	34.1 \pm 0.47 (5)	13.55 \pm 3.620 (5)
Fenitrothion 4mg/m ³	7.67 \pm 0.211 (5)	14.6 \pm 0.25 (5)	42.9 \pm 0.83 (5)	55.9 \pm 0.70 (5)	19.0 \pm 0.27 (5)	34.0 \pm 0.18 (5)	15.83 \pm 1.898 (5)
Fenitrothion 8mg/m ³	7.79 \pm 0.172 (5)	14.7 \pm 0.26 (5)	43.2 \pm 0.91 (5)	55.6 \pm 1.17 (5)	18.9 \pm 0.39 (5)	33.9 \pm 0.34 (5)	13.60 \pm 2.753 (5)

Mean \pm SD, (n)

Table 13. Hematology - group mean values (continued)

Sex: Female

Group and dose	WBC ($\times 10^3 / \mu\text{L}$)	Neut ($\times 10^3 / \mu\text{L}$)	Lymp ($\times 10^3 / \mu\text{L}$)	Mono ($\times 10^3 / \mu\text{L}$)	Eos ($\times 10^3 / \mu\text{L}$)	Baso ($\times 10^3 / \mu\text{L}$)
Vehicle control	3.25 \pm (5)	0.41 \pm (5)	2.75 \pm (5)	0.04 \pm (5)	0.03 \pm (5)	0.01 \pm (5)
Fenitrothion 2mg/m ³	3.74 \pm (5)	0.49 \pm (5)	3.16 \pm (5)	0.05 \pm (5)	0.04 \pm (5)	0.01 \pm (5)
Fenitrothion 4mg/m ³	4.38 \pm (5)	0.56 \pm (5)	3.71 \pm (5)	0.06 \pm (5)	0.04 \pm (5)	0.01 \pm (5)
Fenitrothion 8mg/m ³	3.99 \pm (5)	0.54 \pm (5)	3.34 \pm (5)	0.07 \pm (5)	0.04 \pm (5)	0.01 \pm (5)

Mean \pm SD, (n)

Table 13. Hematology - group mean values (continued)

Sex: Female

Group and dose	PLT ($\times 10^3 / \mu\text{L}$)	PT (SEC)	APT (SEC)	FIB (mg/dL)
Vehicle control	1290 \pm 47.5 (5)	16.8 \pm 0.51 (5)	17.4 \pm 0.68 (5)	198.0 \pm 22.03 (5)
Fenitrothion 2mg/m ³	1304 \pm 176.7 (5)	16.8 \pm 0.49 (5)	17.4 \pm 0.65 (5)	215.4 \pm 28.90 (5)
Fenitrothion 4mg/m ³	1348 \pm 81.0 (5)	17.2 \pm 0.43 (5)	16.3 \pm 1.16 (5)	245.1 \pm 43.35 (5)
Fenitrothion 8mg/m ³	1303 \pm 83.8 (4)	16.7 \pm 0.69 (4)	17.4 \pm 0.33 (4)	243.9 \pm 62.88 (4)
Mean \pm SD, (n)				

Table 14. Blood biochemistry - group mean values

Sex: Male

Group and dose	TP (g/dL)	ALB (g/dL)	A/G	GLU (mg/dL)	T. Cho (mg/dL)	TG (mg/dL)	PL (mg/dL)
Vehicle control	5.6 ± 0.25 (5)	2.1 ± 0.11 (5)	0.60 ± 0.021 (5)	126 ± 21.9 (5)	64 ± 9.9 (5)	60 ± 17.0 (5)	108 ± 11.9 (5)
Fenitrothion 2mg/m ³	6.0* ± 0.17 (5)	2.2* ± 0.04 (5)	0.60 ± 0.042 (5)	133 ± 10.0 (5)	65 ± 10.7 (5)	88 ± 26.9 (5)	118 ± 17.5 (5)
Fenitrothion 4mg/m ³	5.7 ± 0.16 (5)	2.2 ± 0.05 (5)	0.61 ± 0.039 (5)	133 ± 15.4 (5)	62 ± 5.5 (5)	69 ± 33.2 (5)	111 ± 6.5 (5)
Fenitrothion 8mg/m ³	5.8 ± 0.17 (5)	2.1 ± 0.04 (5)	0.56 ± 0.040 (5)	137 ± 17.5 (5)	74 ± 13.6 (5)	82 ± 35.3 (5)	125 ± 19.3 (5)

Mean ± SD, (n)

*: Significantly different from the Vehicle control group (p<0.05)

Table 14. Blood biochemistry - group mean values (continued)

Sex: Male

Group and dose	AST (U/L)	ALT (U/L)	ALP (U/L)	γ -GTP (U/L)	LDH (U/L)	CPK (U/L)	Cre (mg/dL)
Vehicle control	75 ± (5)	28 ± (5)	647 ± (5)	1 ± (5)	128 ± (5)	175 ± (5)	0.3 ± (5)
Fenitrothion 2mg/m ³	78 ± (5)	28 ± (5)	569 ± (5)	1 ± (5)	105 ± (5)	148 ± (5)	0.3 ± (5)
Fenitrothion 4mg/m ³	82 ± (5)	29 ± (5)	734 ± (5)	1 ± (5)	143 ± (5)	162 ± (5)	0.3 ± (5)
Fenitrothion 8mg/m ³	71 ± (5)	28 ± (5)	546 ± (5)	1 ± (5)	75 ± (5)	126* ± (5)	0.3 ± (5)

Mean ± SD, (n)

*: Significantly different from the vehicle control group (p<0.05)

Table 14. Blood biochemistry - group mean values (continued)

Sex: Male

Group and dose	T. Bil (mg/dL)	BUN (mg/dL)	IP (mg/dL)	Na (mEq/L)	K (mEq/L)	Cl (mEq/L)	Ca (mg/dL)
Vehicle control	0.06 ± 0.004 (5)	14 ± 3.1 (5)	7.0 ± 0.45 (5)	144 ± 0.8 (5)	4.1 ± 0.10 (5)	107 ± 0.9 (5)	9.7 ± 0.25 (5)
Fenitrothion 2mg/m ³	0.06 ± 0.008 (5)	14 ± 2.3 (5)	6.7 ± 0.18 (5)	144 ± 0.4 (5)	3.8 ± 0.24 (5)	107 ± 1.3 (5)	10.0 ± 0.32 (5)
Fenitrothion 4mg/m ³	0.06 ± 0.007 (5)	14 ± 1.5 (5)	7.1 ± 0.61 (5)	144 ± 1.3 (5)	4.3 ± 0.44 (5)	107 ± 1.4 (5)	9.9 ± 0.28 (5)
Fenitrothion 8mg/m ³	0.05 ± 0.008 (5)	14 ± 2.3 (5)	6.9 ± 0.21 (5)	143 ± 0.5 (5)	4.1 ± 0.19 (5)	106 ± 1.1 (5)	9.9 ± 0.23 (5)

Mean ± SD, (n)

Table 14. Blood biochemistry - group mean values (continued)

Sex: Female

Group and dose	TP (g/dL)	ALB (g/dL)	A/G	GLU (mg/dL)	T. Cho (mg/dL)	TG (mg/dL)	PL (mg/dL)
Vehicle control	6.1 ± (5)	2.4 ± 0.16 (5)	0.66 ± 0.023 (5)	115 ± (5)	71 ± 15.3 (5)	42 ± 16.0 (5)	139 ± 22.7 (5)
Fenitrothion 2mg/m ³	6.2 ± (5)	2.4 ± 0.04 (5)	0.65 ± 0.022 (5)	115 ± (5)	73 ± 10.4 (5)	23 ± 7.5 (5)	137 ± 15.4 (5)
Fenitrothion 4mg/m ³	6.1 ± (5)	2.3 ± 0.13 (5)	0.62 ± 0.059 (5)	115 ± (5)	68 ± 9.4 (5)	25 ± 16.6 (5)	127 ± 22.8 (5)
Fenitrothion 8mg/m ³	6.2 ± (5)	2.3 ± 0.15 (5)	0.61 ± 0.041 (5)	113 ± (5)	72 ± 10.6 (5)	17* ± 5.7 (5)	129 ± 20.7 (5)

Mean ± SD, (n)

*: Significantly different from the Vehicle control group (p<0.05)

Table 14. Blood biochemistry - group mean values (continued)

Sex: Female

Group and dose	AST (U/L)	ALT (U/L)	ALP (U/L)	γ -GTP (U/L)	LDH (U/L)	CPK (U/L)	Cre (mg/dL)
Vehicle control	80 ± (5)	25 ± 1.9 (5)	286 ± 73.0 (5)	1 ± 0.0 (5)	212 ± 100.7 (5)	175 ± 54.4 (5)	0.3 ± 0.00 (5)
Penitrothion 2mg/m ³	85 ± 24.0 (5)	25 ± 9.7 (5)	437 ± 85.5 (5)	1 ± 0.5 (5)	190 ± 110.4 (5)	172 ± 52.9 (5)	0.3 ± 0.04 (5)
Penitrothion 4mg/m ³	86 ± 11.9 (5)	26 ± 3.4 (5)	481* ± 127.1 (5)	1 ± 0.4 (5)	249 ± 232.4 (5)	180 ± 76.7 (5)	0.3 ± 0.00 (5)
Penitrothion 8mg/m ³	84 ± 6.5 (5)	26 ± 3.6 (5)	381 ± 96.6 (5)	1 ± 0.4 (5)	136 ± 64.3 (5)	132 ± 30.2 (5)	0.3 ± 0.00 (5)

Mean ± SD, (n)

*: Significantly different from the Vehicle control group (p<0.05)

Table 14. Blood biochemistry - group mean values (continued)

Sex: Female

Group and dose	T. Bil (mg/dL)	BUN (mg/dL)	IP (mg/dL)	Na (mEq/L)	K (mEq/L)	Cl (mEq/L)	Ca (mg/dL)
Vehicle control	0.07 ± 0.004 (5)	18 ± 3.1 (5)	6.5 ± 0.75 (5)	143 ± 0.8 (5)	3.6 ± 0.25 (5)	107 ± 1.5 (5)	10.2 ± 0.31 (5)
Fenitrothion 2mg/m ³	0.08 ± 0.015 (5)	20 ± 1.6 (5)	7.0 ± 0.58 (5)	144 ± 1.3 (5)	3.4 ± 0.21 (5)	108 ± 1.3 (5)	10.3 ± 0.30 (5)
Fenitrothion 4mg/m ³	0.07 ± 0.005 (5)	18 ± 1.3 (5)	7.1 ± 0.29 (5)	144 ± 0.7 (5)	3.5 ± 0.16 (5)	107 ± 1.1 (5)	10.1 ± 0.23 (5)
Fenitrothion 8mg/m ³	0.06 ± 0.011 (5)	19 ± 1.9 (5)	7.1 ± 0.61 (5)	144 ± 1.3 (5)	3.6 ± 0.24 (5)	107 ± 0.4 (5)	10.2 ± 0.30 (5)
Mean ± SD, (n)							

Table 15. Changes of cholinesterase activity - group mean values

Sex: Male

Group and dose	PChE (U/L)	BChE (U/g)	RChE (U/L)
Vehicle control	401 ± 85.9 (5)	13.5 ± 0.60 (5)	1004 ± 133.2 (5)
Fenitrothion 2mg/m ³	352 ± 49.4 (5)	13.3 ± 0.40 (5)	931 ± 97.6 (5)
Fenitrothion 4mg/m ³	334 ± 27.9 (5)	12.6* ± 0.34 (5)	858 ± 170.0 (5)
Fenitrothion 8mg/m ³	326* ± 19.0 (5)	11.9** ± 0.54 (5)	741* ± 125.7 (5)

Mean ± SD, (n)

*: Significantly different from the Vehicle control group (p<0.05)

**: Significantly different from the Vehicle control group (p<0.01)

Table 15. Changes of cholinesterase activity - group mean values (continued)

Sex: Female

Group and dose	PChE (U/L)	BChE (U/g)	RChE (U/L)
Vehicle control	1478 ± 342.2 (5)	13.5 ± 0.53 (5)	970 ± 176.6 (5)
Fenitrothion 2mg/m ³	1024 ± 164.3 (5)	13.1 ± 0.59 (5)	850 ± 63.5 (5)
Fenitrothion 4mg/m ³	835* ± 224.0 (5)	13.0 ± 0.78 (5)	792 ± 164.6 (5)
Fenitrothion 8mg/m ³	427* ± 40.5 (5)	9.2** ± 0.51 (5)	480** ± 64.5 (5)

Mean ± SD, (n)

*: Significantly different from the Vehicle control group (p<0.05)

**: Significantly different from the Vehicle control group (p<0.01)

Table 16. Absolute organ weights - group mean values

Sex: Male

Group and dose	Final body weight g	Liver g	Kidneys g	Spleen g	Heart g	Lung g	Brain g	Thymus g
Vehicle control	309 ± (5)	8.63 ± 0.834 (5)	2.42 ± 0.280 (5)	0.59 ± 0.149 (5)	1.11 ± 0.122 (5)	1.13 ± 0.111 (5)	1.96 ± 0.031 (5)	0.49 ± 0.088 (5)
Fenitrothion 2mg/m ³	291 ± (5)	8.07 ± 0.533 (5)	2.28 ± 0.230 (5)	0.52 ± 0.048 (5)	1.03 ± 0.071 (5)	1.01 ± 0.071 (5)	1.93 ± 0.112 (5)	0.57 ± 0.076 (5)
Fenitrothion 4mg/m ³	308 ± (5)	8.75 ± 0.608 (5)	2.47 ± 0.175 (5)	0.59 ± 0.145 (5)	1.03 ± 0.054 (5)	1.10 ± 0.053 (5)	2.01 ± 0.131 (5)	0.60 ± 0.062 (5)
Fenitrothion 8mg/m ³	310 ± (5)	9.15 ± 0.745 (5)	2.33 ± 0.151 (5)	0.55 ± 0.058 (5)	1.08 ± 0.118 (5)	1.08 ± 0.065 (5)	1.98 ± 0.033 (5)	0.53 ± 0.050 (5)

Mean ± SD, (n)

Table 16. Absolute organ weights - group mean values (continued)

Sex: Male

Group and dose	Adrenals mg	Pituitary mg	Thyroid mg	Ventral prostate mg	Testes g
Vehicle control	52 ± 8.0 (5)	11 ± 1.6 (5)	17 ± 1.9 (5)	460.0 ± 114.17 (5)	3.04 ± 0.255 (5)
Fenitrothion 2mg/m ³	55 ± 7.1 (5)	10 ± 1.5 (5)	18 ± 0.9 (5)	408.8 ± 58.81 (5)	2.82 ± 0.094 (5)
Fenitrothion 4mg/m ³	57 ± 6.4 (5)	12 ± 1.1 (5)	17 ± 1.6 (5)	401.0 ± 71.11 (5)	2.86 ± 0.088 (5)
Fenitrothion 8mg/m ³	59 ± 7.3 (5)	11 ± 0.5 (5)	18 ± 1.3 (5)	420.3 ± 115.60 (5)	2.98 ± 0.173 (5)
Mean ± SD, (n)					

Table 16. Absolute organ weights - group mean values (continued)

Sex: Female

Group and dose	Final body weight g	Liver g	Kidneys g	Spleen g	Heart g	Lung g	Brain g	Thymus g
Vehicle control	186 ± (5)	5.55 ± 0.564 (5)	1.61 ± 0.092 (5)	0.43 ± 0.064 (5)	0.70 ± 0.070 (5)	0.84 ± 0.116 (5)	1.83 ± 0.080 (5)	0.43 ± 0.068 (5)
Fenitrothion 2mg/m ³	187 ± (5)	5.47 ± 0.521 (5)	1.60 ± 0.046 (5)	0.38 ± 0.063 (5)	0.69 ± 0.052 (5)	0.83 ± 0.036 (5)	1.82 ± 0.072 (5)	0.41 ± 0.128 (5)
Fenitrothion 4mg/m ³	188 ± (5)	5.63 ± 0.451 (5)	1.70 ± 0.166 (5)	0.43 ± 0.042 (5)	0.70 ± 0.039 (5)	0.88 ± 0.062 (5)	1.81 ± 0.065 (5)	0.40 ± 0.050 (5)
Fenitrothion 8mg/m ³	193 ± (5)	5.59 ± 0.489 (5)	1.66 ± 0.100 (5)	0.39 ± 0.047 (5)	0.73 ± 0.042 (5)	0.85 ± 0.018 (5)	1.83 ± 0.074 (5)	0.48 ± 0.084 (5)

Mean ± SD, (n)

Table 16. Absolute organ weights - group mean values (continued)

Sex: Female

Group and dose	Adrenals		Pituitary		Thyroid		Ovaries	
	mg		mg		mg		mg	
Vehicle control	58		12		14		72	
	± 6.5		± 1.9		± 1.3		± 16.7	
	(5)		(5)		(4)		(5)	
Fenitrothion 2mg/m ³	54		11		13		73	
	± 5.0		± 1.1		± 0.5		± 13.7	
	(5)		(5)		(5)		(5)	
Fenitrothion 4mg/m ³	55		11		14		82	
	± 6.5		± 1.9		± 1.1		± 8.4	
	(5)		(5)		(5)		(5)	
Fenitrothion 8mg/m ³	61		13		14		74	
	± 6.8		± 2.9		± 1.5		± 12.8	
	(5)		(5)		(5)		(5)	

Mean ± SD, (n)

Table 17. Relative organ weights - group mean values

Sex: Male

Group and dose	Final body weight g	Liver g%	Kidneys g%	Spleen g%	Heart g%	Lung g%	Brain g%	Thymus g%
Vehicle control	309 ± (5)	2.80 ± 0.090 (5)	0.78 ± 0.026 (5)	0.19 ± 0.031 (5)	0.36 ± 0.011 (5)	0.37 ± 0.015 (5)	0.64 ± 0.069 (5)	0.16 ± 0.033 (5)
Fenitrothion 2mg/m ³	291 ± (5)	2.78 ± 0.024 (5)	0.78 ± 0.040 (5)	0.18 ± 0.008 (5)	0.35 ± 0.015 (5)	0.35 ± 0.019 (5)	0.67 ± 0.051 (5)	0.20 ± 0.028 (5)
Fenitrothion 4mg/m ³	308 ± (5)	2.84 ± 0.122 (5)	0.80 ± 0.065 (5)	0.19 ± 0.041 (5)	0.33 ± 0.011 (5)	0.35 ± 0.015 (5)	0.65 ± 0.048 (5)	0.20 ± 0.023 (5)
Fenitrothion 8mg/m ³	310 ± (5)	2.95 ± 0.123 (5)	0.75 ± 0.029 (5)	0.18 ± 0.015 (5)	0.35 ± 0.030 (5)	0.35 ± 0.026 (5)	0.64 ± 0.041 (5)	0.17 ± 0.024 (5)

Mean ± SD, (n)

Table 17. Relative organ weights - group mean values (continued)

Sex: Male

Group and dose	Adrenals mg%	Pituitary mg%	Thyroid mg%	Ventral prostate mg%	Testes g%
Vehicle control	16.9 ± 1.69 (5)	3.6 ± 0.19 (5)	5.4 ± 0.55 (5)	147.3 ± 20.50 (5)	0.99 ± 0.110 (5)
Fenitrothion 2mg/m ³	19.1 ± 2.81 (5)	3.5 ± 0.32 (5)	6.1 ± 0.44 (5)	140.8 ± 19.57 (5)	0.97 ± 0.049 (5)
Fenitrothion 4mg/m ³	18.4 ± 2.25 (5)	3.7 ± 0.27 (5)	5.6 ± 0.65 (5)	129.7 ± 20.19 (5)	0.93 ± 0.067 (5)
Fenitrothion 8mg/m ³	19.3 ± 3.22 (5)	3.5 ± 0.34 (5)	5.8 ± 0.42 (5)	135.7 ± 34.31 (5)	0.97 ± 0.104 (5)
Mean ± SD, (n)					

Table 17. Relative organ weights - group mean values (continued)

Sex: Female

Group and dose	Final body weight g	Liver g%	Kidneys g%	Spleen g%	Heart g%	Lung g%	Brain g%	Thymus g%
Vehicle control	186 ± 16.6 (5)	2.98 ± 0.120 (5)	0.87 ± 0.074 (5)	0.23 ± 0.035 (5)	0.38 ± 0.019 (5)	0.45 ± 0.028 (5)	0.99 ± 0.057 (5)	0.23 ± 0.039 (5)
Fenitrothion 2mg/m ³	187 ± 10.2 (5)	2.92 ± 0.174 (5)	0.86 ± 0.041 (5)	0.20 ± 0.023 (5)	0.37 ± 0.020 (5)	0.45 ± 0.029 (5)	0.97 ± 0.034 (5)	0.22 ± 0.065 (5)
Fenitrothion 4mg/m ³	188 ± 10.9 (5)	3.00 ± 0.102 (5)	0.90 ± 0.055 (5)	0.23 ± 0.026 (5)	0.37 ± 0.028 (5)	0.47 ± 0.019 (5)	0.97 ± 0.042 (5)	0.21 ± 0.019 (5)
Fenitrothion 8mg/m ³	193 ± 10.7 (5)	2.89 ± 0.136 (5)	0.86 ± 0.049 (5)	0.20 ± 0.027 (5)	0.37 ± 0.015 (5)	0.44 ± 0.023 (5)	0.94 ± 0.024 (5)	0.25 ± 0.048 (5)

Mean ± SD, (n)

Table 17. Relative organ weights - group mean values (continued)

Sex: Female

Group and dose	Adrenals mg%	Pituitary mg%	Thyroid mg%	Ovaries mg%
Vehicle control	31.6 ± 4.61 (5)	6.4 ± 0.48 (5)	7.5 ± 0.90 (4)	38.6 ± 6.37 (5)
Fenitrothion 2mg/m ³	29.1 ± 1.70 (5)	6.1 ± 0.44 (5)	7.2 ± 0.60 (5)	39.1 ± 5.78 (5)
Fenitrothion 4mg/m ³	29.3 ± 2.08 (5)	5.8 ± 0.75 (5)	7.2 ± 0.34 (5)	43.6 ± 3.04 (5)
Fenitrothion 8mg/m ³	31.7 ± 2.35 (5)	6.5 ± 1.18 (5)	7.2 ± 1.08 (5)	37.9 ± 4.87 (5)
Mean ± SD, (n)				

Table 18. Gross pathology - summary of findings

Sex : MALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues	Group				
Findings	1	2	3	4	
No. Animal examined	[5]	[5]	[5]	[5]	[5]
All organs/ Within normal limits	3	3	2	3	
Eye/ White focus	0	1	0	0	
Liver/ Grayish-white focus	0	0	1	0	
Lung/ Brown focus	0	1	0	0	
Dark red focus	0	0	0	1	
Red focus	1	0	2	0	
Thymus/ Red focus	2	0	1	0	
Urinary bladder/ White substance	0	0	2	1	

Table 18. Gross pathology - summary of findings (continued)

Sex : FEMALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group			
	1	2	3	4
No. Animal examined	[5]	[5]	[5]	[5]
All organs/ Within normal limits	4	5	3	3
Lung/ Brown focus	0	0	0	1
Skin/ Scab	0	0	1	0
Thymus/ Red focus	0	0	0	2
Uterus/ Retention of fluid	1	0	1	0

Table 19. Histopathology - summary of findings

Sex : MALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group			
	1	2	3	4
No. Animal examined	[5]	[5]	[5]	[5]
Adrenal/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Aorta/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Bone/bone marrow, Femur/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Bone/bone marrow, Sternum/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Brain, Cerebellum/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Brain, Cerebrum/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Brain, Medulla oblongata/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Brain, Pons/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Coagulating gland/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Epididymis/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5

Table 19. Histopathology - summary of findings (continued)

Sex : MALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group			
	1	2	3	4
No. Animal examined	[5]	[5]	[5]	[5]
Esophagus/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Exorbital lacrimal gland/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Eye/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Harderian gland/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Heart/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Kidney/ Within normal limits	[5] 2	[0] 0	[0] 0	[5] 3
Basophilic tubule +- Cell infiltration, mononuclear cell +- Dilatation, tubule +- Fibrosis, interstitial +-	1 1 3 1	0 0 0 0	0 0 0 0	1 1 1 0
Large intestine/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Larynx/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Liver/ Cell infiltration, mononuclear cell +- Necrosis, focal +- Grade, +-: slight	[5] 5 1	[0] 0 0	[0] 0 0	[5] 5 0

Table 19. Histopathology - summary of findings (continued)

Sex : MALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group 1	Group 2	Group 3	Group 4
No. Animal examined	[5]	[5]	[5]	[5]
Necrosis, single cell +-	2	0	0	3
Lung/	[5]	[0]	[0]	[5]
Within normal limits	4	0	0	3
Cell infiltration, alveolar macrophages +-	1	0	0	1
Cell infiltration, foam cell +-	1	0	0	0
Cell infiltration, inflammatory cell +-	1	0	0	1
Cell infiltration, mononuclear cell +-	1	0	0	1
Hemorrhage, fresh +-	1	0	0	0
Lymph node, Mesenteric/	[5]	[0]	[0]	[5]
Within normal limits	5	0	0	5
Lymph node, Submandibular/	[5]	[0]	[0]	[5]
Within normal limits	5	0	0	5
Mammary gland/	[5]	[0]	[0]	[5]
Within normal limits	5	0	0	5
Nose/	[5]	[0]	[0]	[5]
Within normal limits	5	0	0	5
Pancreas/	[5]	[0]	[0]	[5]
Within normal limits	5	0	0	5
Parathyroid gland/	[5]	[0]	[0]	[5]
Within normal limits	5	0	0	5
Pharynx/	[5]	[0]	[0]	[5]
Within normal limits	5	0	0	5

Grade, +-: slight

Table 19. Histopathology - summary of findings (continued)

Sex : MALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group			
	1	2	3	4
No. Animal examined	[5]	[5]	[5]	[5]
Pituitary/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Prostate/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Sciatic nerve/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Seminal vesicle/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Skeletal muscle/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Skin/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Small intestine/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Spinal cord, Cervix/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Spinal cord, Lumbar/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Spinal cord, Thoracic/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5

Table 19. Histopathology - summary of findings (continued)

Sex : MALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group 1	Group 2	Group 3	Group 4
No. Animal examined	[5]	[5]	[5]	[5]
Spleen/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Stomach/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Submandibular gland/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Testis/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Thymus/ Within normal limits Hemorrhage, fresh +-	[5] 0 5	[0] 0 0	[0] 0 0	[5] 1 4
Thyroid/ Within normal limits Ultimobranchial body P	[5] 5 0	[0] 0 0	[0] 0 0	[5] 4 1
Tongue/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Trachea/ Within normal limits Dilatation, tracheal gland +-	[5] 4 1	[0] 0 0	[0] 0 0	[5] 4 1
Urinary bladder/ Within normal limits Eosinophilic substance P	[5] 5 0	[0] 0 0	[0] 0 0	[5] 4 1

Grade, +-: slight, P: present

Table 19. Histopathology - summary of findings (continued)

Sex : FEMALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group			
	1	2	3	4
No. Animal examined	[5]	[5]	[5]	[5]
Adrenal/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Aorta/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Bone/bone marrow, Femur/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Bone/bone marrow, Sternum/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Brain, Cerebellum/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Brain, Cerebrum/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Brain, Medulla oblongata/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Brain, Pons/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Esophagus/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Exorbital lacrimal gland/ Within normal limits	[5] 4	[0] 0	[0] 0	[5] 4
Vacuolation, diffuse +	1	0	0	1

Grade, +-: slight

Table 19. Histopathology - summary of findings (continued)

Sex : FEMALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	1	2	3	4
No. Animal examined	[5]	[5]	[5]	[5]
Eye/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Harderian gland/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Heart/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Kidney/ Within normal limits	[5] 3	[0] 0	[0] 0	[5] 4
Basophilic tubule +- Cell infiltration, mononuclear cell +- Dilatation, tubule +-	2 1 1	0 0 0	0 0 0	1 0 0
Large intestine/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Larynx/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Liver/ Cell infiltration, mononuclear cell +- Necrosis, single cell +-	[5] 5 2	[0] 0 0	[0] 0 0	[5] 5 2
Lung/ Within normal limits Cell infiltration, alveolar macrophages +- Cell infiltration, foam cell +- Cell infiltration, inflammatory cell +- Cell infiltration, mononuclear cell +-	[5] 2 0 1 0 2	[0] 0 0 0 0 0	[0] 0 0 0 0 0	[5] 3 1 1 1 0

Grade, +-: slight

Table 19. Histopathology - summary of findings (continued)

Sex : FEMALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group 1	Group 2	Group 3	Group 4
No. Animal examined	[5]	[5]	[5]	[5]
Lymph node, Mesenteric/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Lymph node, Submandibular/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Mammary gland/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Nose/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Ovary/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Pancreas/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Parathyroid gland/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Pharynx/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Pituitary/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Sciatic nerve/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5

Table 19. Histopathology - summary of findings (continued)

Sex : FEMALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group 1	Group 2	Group 3	Group 4
No. Animal examined	[5]	[5]	[5]	[5]
Skeletal muscle/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Skin/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Small intestine/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Spinal cord, Cervix/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Spinal cord, Lumbar/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Spinal cord, Thoracic/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Spleen/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Stomach/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Submandibular gland/ Within normal limits	[5] 5	[0] 0	[0] 0	[5] 5
Thymus/ Within normal limits	[5] 3	[0] 0	[0] 0	[5] 1
Hemorrhage, fresh +- Grade, +-: slight	2	0	0	4

Table 19. Histopathology - summary of findings (continued)

Sex : FEMALE

Group 1 : Vehicle control Group 2: Fenitrothion 2mg/m³ Group 3: Fenitrothion 4mg/m³ Group 4: Fenitrothion 8mg/m³

Tissues Findings	Group			
	1	2	3	4
No. Animal examined	[5]	[5]	[5]	[5]
Thyroid/ Within normal limits	[5]	[0]	[0]	[5]
Ultimobranchial body P	4 1	0 0	0 0	5 0
Tongue/ Within normal limits	[5]	[0]	[0]	[5]
Trachea/ Within normal limits	[5]	[0]	[0]	[5]
Dilatation, tracheal gland +-	4 1	0 0	0 0	5 0
Urinary bladder/ Within normal limits	[5]	[0]	[0]	[5]
Uterus/ Within normal limits	[5]	[0]	[0]	[5]
Dilatation +-	4 1	0 0	0 0	5 0
Vagina/ Within normal limits	[5]	[0]	[0]	[5]
	5	0	0	5

Grade, +-: slight, P: present

