Table 8 - 5

Detailed clinical observations - Summary data in F1 female rats on postnatal day

Home cage: Convulsions

Dose groups (mg/kg/day)	Score	PND 13	25	40	63			
1% Tween80	0	8	8	8	8			 
0	1	0	0	0	0			
	2	0	0	0	0			
Parathion	0	5	5	5	5			
0.3	1	0	0	0	0			
	2	0	0	0	0			
Methami	0	8	8	8	8	 	<del></del>	 •
dophos	1	0	0	0	0			
i.0	2	0	0	0	0			

Table 8 - 6 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Alertness

Dose groups (mg/kg/day)	Score	PND 13	25	40	63	
1% Tween80	-2	0	0	0	0	
0	-1	5	0	2	0	
	0	3	8	6	8	
	1	0	0	0	0	
	2	0	0	0	0	
Parathion	-2	0	0	0	0	
0.3	-1	4	0	1	0	
	0	1	5	4	5	
	1	0	0	0	0	
	2	0	0	0	0	
Methami	-2	0	0	0	0	
dophos	-1	4	0	1	0	
1.0	0	4	8	7	8	
	1	0	0	0	0	
	2	0	0	0	0	

Table 8 - 7 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Aggression

D		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	0	8	8	8	8
0	1	0	0	0	0
	2	0	0	0	0
	3	. 0	0	0	0
Parathion	0	5	5	5	5
0.3	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Methami	0	8	8	8	8
dophos	1	0	0	0	0
1.0	2	0	0	0	0
	3	0	0	0	0

Table 8 - 8

Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Stereotypies

	,	PND				
Dose groups (mg/kg/day)	Score	13	25	40	63	
1% Tween80	0	8	8	8	8	
0	1	0	0	0	0	
	2	0	0	0	0	
	3	0	0	0	0	
Parathion	0	5	5	5	5	
0.3	1	0	0	0	0	
	2	0	0	0	0	
	3	0	0	0	0	
Methami	0	8	8	8	8	
dophos	1	0	0	0	0	
1.0	2	0	0	0	0	
	3	0	0	0	0	

Table 8 - 9 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Bizarre behavior

Dono arround		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	0	8	8	8	8
0	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Parathion	0	5	5	5	5
0.3	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Methami	0	8	8	8	8
dophos	1	0	0	0	0
1.0	2	0	0	0	0
	3	0	0	0	0

Table 8 - 10 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Unkempt fur

Dogo mouma		PND				
Dose groups (mg/kg/day)	Score	13	25	40	63	
1% Tween80	0	8	8	8	8	
0	1	0	0	0	0	
	2	0	0	0	0	
	3	0	0	0	0	
	NA	0	0	0	0	
Parathion	0	5	5	5	5	
0.3	1	0	0	0	0	
	2	0	0	0	0	
	3	0	0	0	0	
	NA	0	0	0	0	
Methami	0	8	8	8	0	 
	1				8	
dophos	1	0	0	0	0	
1.0	2	0	0	0	0	
	3	0	0	0	0	
•	NA	0	0	0	0	

Table 8 - 11 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Piloerection

D .		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	0	8	8	8	8
0	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
	NA	0	0	0	0
Parathion	0	5	5	5	5
0.3	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
	NA	0	0	0	0
Methami	0	8	8	8	8
dophos	1	0	0	0	0
1.0	2	0	0	0	0
	3	0	0	0	0
	NA	0	0	0	0

Table 8 - 12 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Skin color

Daga		PND				
Dose groups (mg/kg/day)	Score	13	25	40	63	
1% Tween80	-2	0	0	0	0	
0	-1	0	. 0	0	0	
	0	8	8	8	8	
	1	0	0	0	0	
	2	0	0	0	0	
Parathion	-2	0	0	0	0	
0.3	-1	0	0	0	0	
	0	5	5	5	5	
	1	0	0	0	0	
	2	0	0	0	0	
Methami	-2	0	0	0	0	 
dophos	-1	0	0	0	0	
1.0	0	8	8	8	8	
	1	0	0	0	0	
	2	0	0	0	Õ	

Table 8 - 13

Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Exploration

D		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	-2	0	0 .	0	0
0	-1	0	0	0	0
	0	2	1	1	0
	1	6	6	7	7
	2	0	1	0	1
Parathion	-2	0	0	0	0
0.3	-1	0	0	0	0
	0	1	1	0	0
	1	3	3	3	5
	2	1	1	2	0
Methami	-2	0	0	0	0
dophos	-1	0	0	0	0
1.0	0	0	1	0	0
	1	8	6	7	5
	2	0	1	1	3

Table 8 - 14 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Abnormal gait

Dose groups		PND	,					
(mg/kg/day)	Score	13	25	40	63			
1% Tween80	0	8	8	8	8	 	· · · · · · · · · · · · · · · · · · ·	 
0	1	0	0	0	0			
	2	0	0	0	0			
	3	0	0	0	0			
	NA	0	0	0	0			
Parathion	0	5	5	5	5	 		 
0.3	1	. 0	0	0	0			
	2	0	0	0	0			
	3	0	0	0	0			
	NA	0	0	0	0			
Methami	0	8	8	8	8			 
dophos	1	0	0	0	0			
1.0	2	0	0	0	0			
	3	0	0	0	0			
	NA	0	0	0	0			

Table 8 - 15 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Count of defecation

	PND			
Score	13	25	40	63
0	8	8	8	8
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
0	5	5	5	5
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
0	8	5	8	8
				0
				0
				0
				0
				0
				0
7	0	0	0	0
	0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7	0 8 1 0 2 0 3 0 4 0 5 0 6 0 7 0 0 5 1 0 2 0 3 0 4 0 5 0 6 0 7 0	0 8 8 8 1 0 0 0 2 0 0 3 3 0 0 4 4 0 0 0 5 0 0 0 6 0 0 0 7 0 0 0 0 5 5 1 0 0 0 2 0 0 0 3 0 0 0 4 0 0 0 5 0 0 0 6 0 0 0 7 0 0 0 8 5 1 0 1 2 0 2 3 0 0 4 0 0 5 0 0 6 0 0 6 0 0	0 8 8 8 8 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0

Table 8 - 16 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Defecation

Daga emarina		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	0	0	0	0	0
0	1	. 0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
	NA	8	8	8	8
Parathion	0	0	0	0	0
0.3	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
	NA	5	5	5	5
Methami	0	0	3	0	0
dophos	1	0	0	0	0
1.0	2	0	0	0	0
	3	0	0	0	0
	NA	8	5	8	8

Table 8 - 17 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Open field: Urination

Daga arrayura		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	0	5	8	5	3
0	1	0	0	0	0
	2	0	0	0	0
	3	1	0	0	0
	NA	2	0	3	5
Parathion	0	3	5	1	2
0.3	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
	NA	2	0	4	3
3.6.3					
Methami	0	4	7	4	5
dophos	1	0	0	0	0
1.0	2	0	0	0	0
	3	0	0	0	0
	NA	4	1	4	3

Table 8 - 18 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Exophthalmos

		PND				
Dose groups (mg/kg/day)	Score	13	25	40	63	
1% Tween80	0	-	8	8	8	
0	1	-	0	0	0	
	2	-	. 0	0	0	
Parathion	0	-	5	5	5	
0.3	1	-	0	0	0	
	2	-	0	0	0	
Methami	0	-	8	8	8	
dophos	1	_	0	0	0	
i.o	2	_	0	0	0	

<sup>-:</sup> No examined because eye opening was not observed on PND13.

Table 8 - 19 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Palpebral closure

5		PND				
Dose groups (mg/kg/day)	Score	13	25	40	63	
1% Tween80	0	-	8	8	8	
0	1	-	0	0	0	
	2	-	0	0	0	
	3	-	0	0	0	
Parathion	0	-	5	5	5	
0.3	1	-	0	0	0	
	2	-	0	0	0	
	3	-	0	0	0	
Methami	0	-	8	8	8	 
dophos	1	-	0	0	0	
1.0	2	•	0	0	0	
	3	_	0	0	0	

<sup>-:</sup> No examined because eye opening was not observed on PND13.

Table 8 - 20 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Lacrimation

D		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	0	-	8	8	8
0	1	-	0	0	0
	2	٠ ـ	0	0	0
	3	-	0	0	0
Parathion	0	-	5	. 5	5
0.3	1	-	0	0	0
	2	-	0	0	0
	3	-	0	0	0
Methami	0	-	8	8	8
dophos	1	-	0	0	0
1.0	2	-	0	0	0
	3	-	0	0	0

<sup>-:</sup> No examined because eye opening was not observed on PND13.

Table 8 - 21 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Salivation

Dono orongo		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	0	8	8	8	8
0	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Parathion	0	5	5	5	5
0.3	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Methami	0	8	8	8	8
dophos	1	0	0	0	0
1.0	2	0	0	0	0
	3	0	0	0	0

Table 8 - 22 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Mucous membrane

D		PND					
Dose groups (mg/kg/day)	Score	13	25	40	63		
% Tween80	-2	0	0	0	0		
0	-1	0	0	0	0		
	0	8	8	8	8		
	1	0	0	0	0		
	2	0	0	0	0		
Parathion	-2	0	0	0	0		
0.3	-1	0	0	0	0		
	0	5	5	5	5		
	1	0	0	0	0		
	2	0	0	0	0		
		) of a				·	
Methami	-2	0	0	0	0		
dophos	-1	0	0	0	0		
1.0	0	8	8	8	8		
	1	0	0	0	0		
	2	0	0	0	0		

Table 8 - 23 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Secretions/excretions (eye)

Daga amazma		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	0	-	8	8	8
0	1	-	0	0	0
	2	-	0	0	0
	3	=	0	0	0
Parathion	0		5	5	5
0.3	1	-	0	0	0
	2	_	0	0	0
	3	-	0	0	0
		_			
Methami	0	-	8	8	8
dophos	1	-	0	0	0
1.0	2	-	0	0	0
	3	-	0	0	0

<sup>-:</sup> No examined because eye opening was not observed on PND13.

Table 8 - 24 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Secretions/excretions (nose)

D		PND			
Dose groups (mg/kg/day)	Score	13	25	40	63
1% Tween80	0	8	8	8	8
0	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Parathion	0	5	5	5	5
0.3	1	0	0	0	0
	2	0	0	0	0
	3	0	0	0	0
Methami	0	8	8	8	8
dophos	1	0	0	0	0
1.0	2	0	0	0	0
	3	0	0	0	0

Table 8 - 25

Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Secretions/excretions (mouth)

		D3 1D			*****	
Oose groups (mg/kg/day)	Score	PND 13	25	40	63	
% Tween80	0	8	8	8	8	
0	1	0	0	0	0	
	2	0	0	0	0	
	3	0	0	0	0	
Parathion	0	5	5	5	5	
0.3	1	0	0	0	0	
	2	0	0	0	0	
	3	0	0	0	0	•
Methami	0	8	8	8	8	
dophos	1	0	0	0	0	
1.0	2	0	0	0	0	
	3	0	0	0	0	

Table 8 - 26 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Muscle tone

D .		PND					
Dose groups (mg/kg/day)	Score	13	25	40	63		
1% Tween80	-2	0	0	0	0		
0	-1	3	0	0	0		
	0	5	8	8	8		
	1	0	0	0	0		
	2	0	0	0	0		
Parathion	-2	0	0	0	0	4	
0.3	-1	0	0	0	0		
	0	5	5	5	5		
	1	0	0	0	0		
	2	0	0	0	0		
Mathami	-2	0	0	0	0	•	
Methami							
dophos	-1	2	0	0	0		
1.0	0	6	8	8	8		
	1	0	0	0	0		
	2	0	0	0	0		

Table 8 - 27 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Reactivity to handling

D		PND				
Dose groups (mg/kg/day)	Score	13	25	40	63	
1% Tween80	-2	0	0	0	0	 
0	-1	0	0	0	0	
	0	8	8	8	8	
	1	0	0	0	0	
	2	0	0	0	0	
Parathion	-2	0	0	0	0	 
0.3	-1	0	0	0	0	
	0	5	5	5	5	
	1	0	0	0	0	
	2	0	0	0	0	
Methami	-2	0	0	0	0	
dophos	-1	0	0	0	0	
1.0	0	8	8	8	7	
	1	0	0	0	1	
	2	0	0	0	0	

Table 8 - 28 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Co-ordination of movement

Dose groups (mg/kg/day)	Score	PND 13	25	40	63	
1% Tween80	0	8	8	8	8	 
0	1	0	0	0	0	
	2	0	0	0	0	
Parathion	0	5	5	5	5	
0.3	1	0	0	0	0	
	2	0	0	0	0	
Methami	0	8	8	8	8	
dophos	1	0	0	0	0	
1.0	2	0	0	0	0	

Table 8 - 29 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Pupil size

Dose groups (mg/kg/day)	Score	PND 13	25	40	63	
1% Tween80	-2	-	0	0	0	-
0	-1	-	0	0	0	
	0	-	8	8	8	
	1	-	0	0	0	
	2	-	0	0	0	
	NA	-	0	0	0	
Parathion	-2	-	0	0	0	
0.3	-1	-	0	1	0	
	0	-	5	4	5	
	1	-	0	0	0	
	2	-	0	0	0	
	NA	-	0	0	0	
Methami	-2		0	0	0	
dophos	-1	-	1	0	0	
1.0	0	-	7	8	8	
	1		0	0	0	
	2	_	0	0	0	
	NA	-	0	0	0	

<sup>-:</sup> No examined because eye opening was not observed on PND13.

Table 8 - 30 Detailed clinical observations - Summary data in F1 female rats on postnatal day

Handling: Pupillary reflex

		PND				 	
Dose groups (mg/kg/day)	Score	13	25	40	63		
1% Tween80	0	_	8	8	8		
0	1	-	0	0	0		
	2	_	0	0	0		
-	NA	-	0	0	0		
Parathion	0	-	5	5	5		 
0.3	1	-	0	0	0		
	- 2	-	0	0	0		
	NA	-	0	0	0		
Methami	0	-	8	8	8	 	
dophos	1	-	0	0	0		
1.0	2	_	0	0	0		
	NA	-	0	0	.0		

<sup>-:</sup> No examined because eye opening was not observed on PND13.

Table 8 - 31 Detailed clinical observations - Summary data in female rats

Open field: Count of rearing

Daga mayes		PND				
Dose groups (mg/kg/day)	Score	13	25	40	63	
1% Tween80	0	8	0	0	0	
0	1-5	0	3	2	0	
	6-10	0	5	4	4	
	11-15	0	0	2	3	
	16-20	0	0	0	1	
	20-25	0	0 .	0	0	
Parathion	0	5	0	0	0	
0.3	1-5	0	2	1	0	
	6-10	0	3	2	0	
	11-15	0	0	1	5	
	16-20	0	0	0	0	
	20-25	0	0	1	0	
Methami	0	7	0	0	0	
dophos	1-5	1	3	0	0	
1.0	6-10	0	4	4	5	
	11-15	0	0	3	2	
	16-20	0	1	1	1	
	20-25	0	0	0	0	

Table 9

Body weight - Group mean values in F1 male and female rats before weaning

Dose groups	Ma	ile pup weig	ht on postnati	al day		Female pup weight on postnatal day					
(mg/kg/day)		0	4	7	14	21	0	4	7	14	21
1% Tween80	Mean	5.8	10.5	16.8	33.7	54.1	5.5	10.1	16.3	32.5	51.6
0	S.D.	0.5.	1.2	1.3	2.5	3.5	0.4	1.2	1.3	2.4	3.0
Parathion	Mean	5.9	10.1	16.3	33.2	53.1	5.7	9.8	15.8	32.5	51.9
0.3	S.D.	0.6	1.1	1.5	1.9	4.5	0.5	0.9	1.1	1.5	3.5
Methamido	Mean	5.6	10.0	16.2	34.5	54.8	5.4	9.7	15.9	34.0	53.4
phos1.0	S.D.	0.4	1.1	1.4	2.1	3.5	. 0.4	1.1	1.4	1.7	2.7

S.D.: Standard deviation.

Data were statistically analyzed by Dunnett's test following one-way ANOVA or Dunnett-type test following Kruskal-Wallis test.

Table 10

Body weight - Group mean values in F1 male rats after weaning

Dose groups		Week of age							Final
(mg/kg/day)		3	4	5	6	7	8	9	body weight
1% Tween80	Mean	54	89	136	179	223	266	298	319
0	S.D.	4	6	9	13	16	19	21	23
Parathion	Mean	53	86	132	176	219	262	294	313
0.3	S.D.	4	6	10	11	14	16	17	20
Methamido	Mean	55	92	140	186	232	275	309	333
phos1.0	S.D.	4	6	8	11	14	18	22	25

S.D.: Standard deviation.

Data were statistically analyzed by Dunnett's test following one-way ANOVA or Dunnett-type test following Kruskal-Wallis test.

Table 11

Body weight - Group mean values in F1 female rats after weaning

Dose groups		Week of age							Final
(mg/kg/day)		3	4	4 5	6	7	8	9	body weight
1% Tween80	Mean	51	80	114	135	156	175	189	197
0	S.D.	3	4	7	9	9	10	10	11
Parathion	Mean	52	82	115	138	156	175	187	195
0.3	S.D.	4	5	7	9	11	13	15	13
Methamido	Mean	53	84 *	118	141	159	176	189	199
phosi.0	S.D.	3	4	5	7	8	10	10	10

S.D.: Standard deviation.

Data were statistically analyzed by Dunnett's test following one-way ANOVA or Dunnett-type test following Kruskal-Wallis test. Significantly different from control: \*,  $p \le 0.05$ ; \*\*,  $p \le 0.01$ .

Table 12 Learning and memory - E-maze test in F1 male rats on postnatal day

		PND 2	5±2	PND 60-70			
Dose groups (mg/kg/day)		Percentage of correct answer (%)	Time (sec.)	Percentage of correct answer (%)	Time (sec.)		
1% Tween80 0	Mean	75	19	75	14		
	S.D.	38	12	38	9		
Parathion	Mean	80	15	100	11		
0.3	S.D.	27	8	0	-5		
Methamido	Mean	100	10	81	13		
phos 1.0	S.D.	0	3	26	7		

S.D.: Standard deviation.

Data were statistically analyzed by Dunnett's test following one-way ANOVA or Dunnett-type test following Kruskal-Wallis test.

Table 13 Learning and memory - E-maze test in F1 female rats on postnatal day

		PND 2	5±2	PND 60-70			
Dose groups (mg/kg/day)		Percentage of correct answer (%)	Time (sec.)	Percentage of correct answer (%)	Time (sec.)		
1% Tween80	Mean	75	. 17	69	25		
	S.D.	46	14	46	17		
Parathion	Mean	70	24	70	13		
0.3	S.D.	27	8	27	6		
Methamido phos 1.0	Mean	100	13	81	15		
	S.D.	0	7	26	11		

S.D.: Standard deviation.

Data were statistically analyzed by Dunnett's test following one-way ANOVA or Dunnett-type test following Kruskal-Wallis test.