

Table 7-1 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
Blood chemistry (Day 28)

Sex	Dose mg/kg	No.		AST (GOT) IU/L	ALT (GPT) IU/L	LDH IU/L	$\gamma$ -GTP IU/L	AlP IU/L	T.cho mg/dL	TG mg/dL	PL mg/dL	T.bili- rubin mg/dL	Glucose mg/dL	BUN mg/dL	Crea- tinine mg/dL
Male	0	6	Mean	60	28	69	1	721	50	49	93	0.1	129	11	0.26
			S.D.	5	3	26	0	125	9	20	11	0.0	9	1	0.02
	8	6	Mean	59	26	54	1	803	52	50	99	0.1	129	11	0.27
			S.D.	7	3	13	0	155	13	18	16	0.0	12	1	0.03
	30	6	Mean	55	25	58	1	1035*	55	60	103	0.1	141	10	0.26
			S.D.	4	1	13	0	266D	5	20	5	0.0	12	2	0.02
	125	6	Mean	67	34	60	1	1542**	64*	37	112*	0.1	131	13	0.25
			S.D.	16	11	16	0	259D	5D	18	5D	0.0	9	2	0.03
Female	0	6	Mean	55	22	50	1	472	62	13	119	0.1	118	13	0.29
			S.D.	7	3	8	0	123	14	4	24	0.0	5	3	0.02
	8	6	Mean	65	24	52	1	505	50	11	96	0.1	104	14	0.32
			S.D.	5	2	9	0	46	14	6	18	0.0	18	2	0.03
	30	6	Mean	53	20	50	1	436	68	10	124	0.1	123	15	0.30
			S.D.	2	2	6	0	65	8	4	13	0.0	11	1	0.04
	125	6	Mean	59	21	58	1	661*	86*	15	152*	0.1	124	14	0.30
			S.D.	15	2	18	0	173D	18D	11	29D	0.0	17	3	0.05

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
D : Dunnett's test

Table 7-2 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
Blood chemistry (Day 28)

Sex	Dose mg/kg	No.		Na	K	Cl	Ca	P	TP	Albumin	A/G
				mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL	
Male	0	6	Mean	143	4.7	107	9.5	8.3	6.0	2.6	0.76
			S.D.	1	0.3	1	0.2	0.3	0.2	0.0	0.04
	8	6	Mean	143	4.7	108	9.5	8.1	6.0	2.6	0.79
			S.D.	2	0.1	1	0.3	0.5	0.2	0.1	0.04
	30	6	Mean	142	4.6	106	9.7	8.4	6.0	2.7	0.80
			S.D.	2	0.1	1	0.2	0.6	0.2	0.1	0.03
	125	6	Mean	143	4.8	107	9.7	8.4	6.0	2.7	0.81
			S.D.	2	0.2	2	0.1	0.6	0.2	0.1	0.01
Female	0	6	Mean	143	4.4	109	9.9	7.6	6.2	2.8	0.82
			S.D.	2	0.2	2	0.1	0.4	0.1	0.1	0.04
	8	6	Mean	143	4.7	109	9.8	8.4*	6.1	2.7	0.80
			S.D.	2	0.4	2	0.2	0.3D	0.2	0.1	0.02
	30	6	Mean	144	4.2	110	9.7	7.8	6.3	2.8	0.82
			S.D.	1	0.2	1	0.1	0.7	0.2	0.1	0.04
	125	6	Mean	142	4.4	108	10.0	7.2	6.7	3.0	0.81
			S.D.	1	0.4	2	0.4	0.5	0.5	0.3	0.03

\* : p<0.05 (Significant difference from control group)  
D : Dunnett's test

Table 7-3 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
Blood chemistry (Week 2 of recovery)

Sex	Dose mg/kg	No.		AST (GOT) IU/L	ALT (GPT) IU/L	LDH IU/L	$\gamma$ -GTP IU/L	AlP IU/L	T.cho mg/dL	TG mg/dL	PL mg/dL	T.bili- rubin mg/dL	Glucose mg/dL	BUN mg/dL	Crea- tinine mg/dL
Male	0	6	Mean	67	30	53	1	599	55	48	99	0.1	135	12	0.27
			S.D.	7	4	11	0	141	8	29	11	0.0	11	1	0.02
	125	6	Mean	59	27	51	1	614	60	57	108	0.1	141	13	0.26
			S.D.	7	2	11	0	161	9	23	15	0.0	15	1	0.03
Female	0	6	Mean	59	21	47	1	331	61	13	116	0.1	119	15	0.32
			S.D.	5	3	6	1	59	8	9	13	0.0	13	2	0.04
	125	6	Mean	57	24	47	1	262	71	15	132	0.1	122	14	0.31
			S.D.	8	5	11	0	52	11	8	16	0.0	18	2	0.03

No significant difference between treated group and control group.

Table 7-4 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
Blood chemistry (Week 2 of recovery)

Sex	Dose mg/kg	No.		Na	K	Cl	Ca	P	TP	Albumin	A/G
				mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL	g/dL
Male	0	6	Mean	144	4.7	107	9.4	7.3	6.1	2.6	0.76
			S.D.	0	0.3	1	0.2	0.3	0.2	0.1	0.05
	125	6	Mean	143	4.7	106	9.6	7.5	6.3*	2.7	0.76
			S.D.	1	0.4	1	0.2	0.4	0.2T	0.1	0.03
Female	0	6	Mean	143	4.4	111	9.7	5.9	6.3	2.8	0.79
			S.D.	1	0.3	1	0.2	0.7	0.3	0.1	0.03
	125	6	Mean	143	4.3	110	9.6	5.6	6.8*	2.9	0.76
			S.D.	1	0.3	2	0.2	0.8	0.2T	0.2	0.04

\* : p<0.05 (Significant difference from control group)  
T : Student's t-test

Table 8-1 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Absolute and relative organ weight (Day 28)  
 Male

Dose mg/kg	Body weight g	Brain g(g/100g BW)	Thymus mg(mg/100g BW)	Heart g(g/100g BW)	Liver g(g/100g BW)	Spleen g(g/100g BW)	Kidney (R+L) g(g/100g BW)	Adrenal (R+L) mg(mg/100g BW)									
									No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.
Absolute	0	No.	6	6	6	6	6	6	6	6							
		Mean	364	2.02	530	1.13	10.63	0.73	2.67	61							
		S.D.	30	0.06	122	0.10	1.27	0.14	0.26	6							
	8	No.	6	6	6	6	6	6	6	6							
		Mean	332	1.98	414	1.10	9.58	0.56*	2.40	55							
		S.D.	39	0.05	121	0.15	1.76	0.06D	0.33	8							
	30	No.	6	6	6	6	6	6	6	6							
		Mean	376	2.02	462	1.13	12.01	0.66	2.74	55							
		S.D.	22	0.06	58	0.06	1.06	0.10	0.16	5							
	125	No.	6	6	6	6	6	6	6	6							
		Mean	341	1.99	446	1.09	11.93	0.64	2.74	55							
		S.D.	23	0.06	41	0.11	0.92	0.06	0.24	8							
Relative	0	No.	6	6	6	6	6	6	6								
		Mean	0.56	145	0.31	2.92	0.20	0.74	17								
		S.D.	0.06	27	0.03	0.15	0.03	0.04	2								
	8	No.	6	6	6	6	6	6	6								
		Mean	0.60	124	0.33	2.87	0.17	0.72	17								
		S.D.	0.08	30	0.02	0.24	0.02	0.02	2								
	30	No.	6	6	6	6	6	6	6								
		Mean	0.54	123	0.30	3.19*	0.17	0.73	15								
		S.D.	0.03	17	0.02	0.14D	0.02	0.04	2								
	125	No.	6	6	6	6	6	6	6								
		Mean	0.59	131	0.32	3.50**	0.19	0.80**	16								
		S.D.	0.05	10	0.02	0.09D	0.01	0.03D	2								

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
 D : Dunnett's test

Table 8-2 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Absolute and relative organ weight (Day 28)  
 Male

Dose mg/kg			Testis	Epididymis
			(R+L) g(g/100g BW)	(R+L) mg(mg/100g BW)
Absolute	0	No.	6	6
		Mean	3.06	841
		S.D.	0.22	67
	8	No.	6	6
		Mean	3.01	752
		S.D.	0.21	47
	30	No.	6	6
		Mean	3.16	796
		S.D.	0.32	64
	125	No.	6	6
		Mean	3.29	827
		S.D.	0.28	71
Relative	0	No.	6	6
		Mean	0.84	232
		S.D.	0.04	14
	8	No.	6	6
		Mean	0.92	229
		S.D.	0.12	31
	30	No.	6	6
		Mean	0.84	212
		S.D.	0.06	10
	125	No.	6	6
		Mean	0.97*	243
		S.D.	0.09D	22

\* : p<0.05 (Significant difference from control group)  
 D : Dunnett's test

Table 8-3 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Absolute and relative organ weight (Day 28)  
 Female

Dose mg/kg	Body weight	g	Brain	Thymus	Heart	Liver	Spleen	Kidney (R+L)	Adrenal (R+L)	
			g(g/100g BW)	mg(mg/100g BW)	g(g/100g BW)	g(g/100g BW)	g(g/100g BW)	g(g/100g BW)	mg(mg/100g BW)	
Absolute	0	No.	6	6	6	6	6	6	6	
		Mean	242	1.86	499	0.85	7.24	0.53	1.89	70
		S.D.	12	0.07	107	0.08	0.71	0.06	0.15	12
	8	No.	6	6	6	6	6	6	6	6
		Mean	226	1.97	467	0.80	6.45	0.53	1.71	70
		S.D.	20	0.10	141	0.08	0.61	0.09	0.13	3
	30	No.	6	6	6	6	6	6	6	6
		Mean	227	1.87	511	0.83	7.04	0.46	1.76	70
		S.D.	14	0.14	45	0.06	0.59	0.07	0.21	7
	125	No.	6	6	6	6	6	6	6	6
		Mean	223	1.90	445	0.80	7.88	0.41*	1.82	62
		S.D.	19	0.08	115	0.09	0.60	0.04D	0.10	6
Relative	0	No.	6	6	6	6	6	6	6	
		Mean	0.77	207	0.35	2.99	0.22	0.78	29	
		S.D.	0.06	42	0.02	0.16	0.02	0.04	5	
	8	No.	6	6	6	6	6	6	6	
		Mean	0.88*	205	0.35	2.85	0.23	0.75	31	
		S.D.	0.08D	57	0.02	0.05	0.02	0.05	2	
	30	No.	6	6	6	6	6	6	6	
		Mean	0.83	225	0.37	3.10	0.20	0.77	31	
		S.D.	0.05	15	0.02	0.15	0.04	0.09	4	
	125	No.	6	6	6	6	6	6	6	
		Mean	0.86	198	0.36	3.54**	0.18	0.82	28	
		S.D.	0.05	37	0.03	0.16D	0.02	0.04	4	

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
 D : Dunnett's test

Table 8-4                      A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Absolute and relative organ weight (Day 28)  
 Female

Dose			Ovary (R+L) mg(mg/100g BW)	Uterus mg(mg/100g BW)
mg/kg				
Absolute	0	No.	6	6
		Mean	85.6	486
		S.D.	7.7	91
	8	No.	6	6
		Mean	92.3	419
		S.D.	8.1	112
	30	No.	6	6
		Mean	92.5	499
		S.D.	4.2	95
	125	No.	6	6
		Mean	80.5	470
		S.D.	19.0	70
Relative	0	No.	6	6
		Mean	35.4	200
		S.D.	3.0	31
	8	No.	6	6
		Mean	41.1	185
		S.D.	5.6	44
	30	No.	6	6
		Mean	40.8	221
		S.D.	2.9	48
	125	No.	6	6
		Mean	36.1	213
		S.D.	7.9	43

No significant difference in any treated groups from control group.



Table 8-5 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Absolute and relative organ weight (Week 2 of recovery)  
 Male

Dose mg/kg	Body weight g	Brain g(g/100g BW)	Thymus mg(mg/100g BW)	Heart g(g/100g BW)	Liver g(g/100g BW)	Spleen g(g/100g BW)	Kidney (R+L) g(g/100g BW)	Adrenal (R+L) mg(mg/100g BW)		
									No.	Mean
Absolute	0	No.	6	6	6	6	6	6	6	
		Mean	419	2.04	426	1.28	11.19	0.67	2.81	67
		S.D.	51	0.12	27	0.10	1.70	0.12	0.34	11
	125	No.	6	6	6	6	6	6	6	
		Mean	410	2.07	415	1.39	12.47	0.69	3.02	59
		S.D.	37	0.08	87	0.20	1.53	0.11	0.29	10
Relative	0	No.	6	6	6	6	6	6		
		Mean	0.49	103	0.31	2.67	0.16	0.67	16	
		S.D.	0.06	10	0.03	0.14	0.03	0.06	2	
	125	No.	6	6	6	6	6	6		
		Mean	0.51	101	0.34	3.04**	0.17	0.74	14	
		S.D.	0.04	15	0.03	0.14T	0.01	0.04	2	

\*\* : p<0.01 (Significant difference from control group)  
 T : Student's t-test

Table 8-6                      A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Absolute and relative organ weight (Week 2 of recovery)  
 Male

Dose			Testis (R+L) g(g/100g BW)	Epididymis (R+L) mg(mg/100g BW)
Absolute	0	No.	6	6
		Mean	2.98	1020
		S.D.	0.32	104
	125	No.	6	6
		Mean	3.45*	1080
		S.D.	0.22T	87
Relative	0	No.	6	6
		Mean	0.72	246
		S.D.	0.07	28
	125	No.	6	6
		Mean	0.85*	264
		S.D.	0.10T	17

\* :  $p < 0.05$  (Significant difference from control group)  
 T : Student's t-test

Table 8-7 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Absolute and relative organ weight (Week 2 of recovery)  
 Female

Dose mg/kg	Body weight g	Brain g(g/100g BW)	Thymus mg(mg/100g BW)	Heart g(g/100g BW)	Liver g(g/100g BW)	Spleen g(g/100g BW)	Kidney (R+L) g(g/100g BW)	Adrenal (R+L) mg(mg/100g BW)									
									No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.
Absolute	0	No.	6	6	6	6	6	6	6								
		Mean	244	1.95	445	0.86	6.31	0.54	1.80	70							
		S.D.	18	0.06	101	0.04	0.65	0.14	0.15	5							
	125	No.	6	6	6	6	6	6	6								
		Mean	260	2.02	432	0.89	7.27*	0.54	2.04	75							
		S.D.	22	0.07	58	0.10	0.68T	0.07	0.26	7							
Relative	0	No.	6	6	6	6	6	6									
		Mean	0.80	183	0.35	2.58	0.22	0.74	29								
		S.D.	0.04	43	0.02	0.12	0.05	0.04	2								
	125	No.	6	6	6	6	6	6									
		Mean	0.78	167	0.34	2.79**	0.21	0.78	29								
		S.D.	0.08	24	0.01	0.08T	0.02	0.06	3								

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
 T : Student's t-test

Table 8-8                      A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Absolute and relative organ weight (Week 2 of recovery)  
 Female

Dose mg/kg			Ovary (R+L)	Uterus
			mg(mg/100g BW)	mg(mg/100g BW)
Absolute	0	No.	6	6
		Mean	86.4	642
		S.D.	6.5	163
	125	No.	6	6
		Mean	88.6	587
		S.D.	13.1	142
Relative	0	No.	6	6
		Mean	35.5	263
		S.D.	3.4	64
	125	No.	6	6
		Mean	34.1	226
		S.D.	3.9	51

No significant difference between treated group and control group.

Table 9-1. A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
Gross pathological findings (Day 28)

Organs Findings	Sex: Dose(mg/kg): Number:	M	M	M	M	F	F	F	F
		0 6	8 6	30 6	125 6	0 6	8 6	30 6	125 6
Epididymis									
Nodule		1	0	0	0	-	-	-	-
Kidney									
Dilatation, pelvic		0	0	1	0	0	0	0	0
Liver									
Area, small		0	0	1	0	0	0	0	0
Uterus									
Cyst		-	-	-	-	1	0	0	0

- : Not applicable

Table 9-2

A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
Gross pathological findings (Week 2 of recovery)

Organs	Sex: Dose(mg/kg): Number:	M 0 6	M 125 6	F 0 6	F 125 6
Findings					
Epididymis					
Small		1	0	-	-
Testis					
Small		1	0	-	-

- : Not applicable

Table 10-1 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
Histopathological findings (Day 28)

Organs	Sex: Dose(mg/kg): Number:	M 0 6	M 8 6	M 30 6	M 125 6	F 0 6	F 8 6	F 30 6	F 125 6
Findings									
Adrenal									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Bone+Bone marrow, femoral									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Bone+Bone marrow, sternal									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Cerebellum									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Cerebrum									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Epididymis									
Number examined		6	0	0	6	-	-	-	-
Not remarkable		5	0	0	5	-	-	-	-
Granuloma, spermatic mild		1	0	0	1	-	-	-	-
mild		1	0	0	1	-	-	-	-
Eye									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	5	6	0	0	6
Fold/rosette, retinal mild		0	0	0	1	0	0	0	0
mild		0	0	0	1	0	0	0	0
Heart									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	5	6	0	0	6
Myocarditis, focal minimal		0	0	0	1	0	0	0	0
minimal		0	0	0	1	0	0	0	0
Intestine, duodenum									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Intestine, jejunum									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Intestine, ileum(Peyer's patch)									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Intestine, cecum									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	5
Cell infiltration, mucosal minimal		0	0	0	0	0	0	0	1
minimal		0	0	0	0	0	0	0	1
Intestine, colon									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Intestine, rectum									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6

- : Not applicable

Table 10-2

A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Histopathological findings (Day 28)

Organs	Sex: Dose(mg/kg): Number:	M 0 6	M 8 6	M 30 6	M 125 6	F 0 6	F 8 6	F 30 6	F 125 6
<b>Kidney</b>									
Number examined		6	6	6	6	6	0	0	6
Not remarkable		6	5	5	3	6	0	0	6
Dilatation, pelvic		0	0	1	0	0	0	0	0
mild		0	0	1	0	0	0	0	0
Dilatation, tubular, cystic		0	0	0	1	0	0	0	0
minimal		0	0	0	1	0	0	0	0
Regeneration, tubular		0	1	0	0	0	0	0	0
minimal		0	1	0	0	0	0	0	0
Eosinophilic body, tubular cell		0	0	0	3	0	0	0	0
minimal		0	0	0	2	0	0	0	0
mild		0	0	0	1	0	0	0	0
<b>Liver</b>									
Number examined		6	6	6	6	6	6	6	6
Not remarkable		5	5	2	0	3	2	2	1
Vacuolation, hepatocyte, periportal		1	1	3	1	3	4	4	2
minimal		1	1	0	1	2	1	1	0
mild		0	0	3	0	1	3	3	2
Necrosis, single cell, hepatocytic		0	0	0	4	0	0	0	2
minimal		0	0	0	4	0	0	0	2
Microgranuloma		0	0	0	1	1	0	0	4
minimal		0	0	0	1	1	0	0	4
Fibrosis, focal		0	0	1	1	0	0	0	0
minimal		0	0	1	1	0	0	0	0
mild		0	0	1	0	0	0	0	0
Hypertrophy, hepatocytic, central		0	0	1	6	0	0	0	3
minimal		0	0	1	2	0	0	0	2
mild		0	0	0	4	0	0	0	1
<b>Lung(bronchus)</b>									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		4	0	0	5	6	0	0	6
Mineralization, arterial wall		1	0	0	0	0	0	0	0
minimal		1	0	0	0	0	0	0	0
Pneumonia, focal		1	0	0	1	0	0	0	0
minimal		1	0	0	1	0	0	0	0
Metaplasia, osseous		1	0	0	0	0	0	0	0
minimal		1	0	0	0	0	0	0	0
<b>Lymph node, mesenteric</b>									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
<b>Lymph node, submandibular</b>									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
<b>Muscle, femoral</b>									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	5	0	0	6
Cell infiltration		0	0	0	0	1	0	0	0
minimal		0	0	0	0	1	0	0	0
<b>Ovary</b>									
Number examined		-	-	-	-	6	0	0	6
Not remarkable		-	-	-	-	6	0	0	6
<b>Parathyroid</b>									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6

- : Not applicable



Table 10-3 A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
Histopathological findings (Day 28)

Organs	Sex:	M	M	M	M	F	F	F	F
Findings	Dose(mg/kg): Number:	0 6	8 6	30 6	125 6	0 6	8 6	30 6	125 6
Pituitary									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Prostate									
Number examined		6	0	0	6	-	-	-	-
Not remarkable		3	0	0	3	-	-	-	-
Cell infiltration, interstitial		3	0	0	3	-	-	-	-
minimal		3	0	0	3	-	-	-	-
Sciatic nerve									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Spinal cord, thoracic									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Spleen									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		5	0	0	5	4	0	0	6
Hematopoiesis, extramedullary		1	0	0	1	2	0	0	0
minimal		1	0	0	1	2	0	0	0
Stomach									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		5	0	0	6	6	0	0	6
Mineralization, mucosal		1	0	0	0	0	0	0	0
minimal		1	0	0	0	0	0	0	0
Testis									
Number examined		6	0	0	6	-	-	-	-
Not remarkable		6	0	0	6	-	-	-	-
Thymus									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Thyroid									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		4	0	0	4	4	0	0	6
Ectopic thymus		0	0	0	1	0	0	0	0
minimal		0	0	0	1	0	0	0	0
Cyst, ultimobranchial		2	0	0	1	2	0	0	0
minimal		2	0	0	1	2	0	0	0
Trachea									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Urinary bladder									
Number examined		6	0	0	6	6	0	0	6
Not remarkable		6	0	0	6	6	0	0	6
Uterus									
Number examined		-	-	-	-	6	0	0	6
Not remarkable		-	-	-	-	5	0	0	6
Cyst		-	-	-	-	1	0	0	0
mild		-	-	-	-	1	0	0	0

- : Not applicable

Table 10-4

A 28-day oral toxicity study of 2-Ethylhexyl vinyl ether in rats with a recovery period of 2 weeks  
 Histopathological findings (Week 2 of recovery)

Organs	Sex: Dose(mg/kg): Number:	M 0 6	M 125 6	F 0 6	F 125 6
Findings					
Epididymis					
Number examined		1	0	-	-
Hypospermia		1	0	-	-
mild		1	0	-	-
Kidney					
Number examined		6	6	0	0
Not remarkable		5	5	0	0
Eosinophilic body.tubular cell		1	1	0	0
minimal		1	1	0	0
Liver					
Number examined		6	6	6	6
Not remarkable		0	5	4	5
Vacuolation.hepatocyte.periportal		3	0	1	1
minimal		0	0	1	0
mild		3	0	0	1
Microgranuloma		3	0	1	0
minimal		3	0	1	0
Hypertrophy.hepatocytic.central		0	1	0	0
minimal		0	1	0	0
Testis					
Number examined		1	0	-	-
Atrophy.seminiferous tubular		1	0	-	-
severe		1	0	-	-

- : Not applicable

## 1. 要約

当該試験条件下において、2,6-Bis(1,1-dimethylethyl)-4-ethylphenol には遺伝子突然変異を誘起する作用がないものと判断した。

2,6-Bis(1,1-dimethylethyl)-4-ethylphenol の遺伝子突然変異誘発性を検討するため、ネズミチフス菌 (*Salmonella typhimurium*) TA100 株, TA98 株, TA1535 株および TA1537 株ならびに大腸菌 (*Escherichia coli*) WP2*uvrA* 株を用いた復帰突然変異試験を行った。

その結果、2,6-Bis(1,1-dimethylethyl)-4-ethylphenol 処理では、1.31~5000 µg/プレート のいずれの用量においても、ラット肝ミクロソーム (S9) 添加の有無にかかわらず、陰性対照の2倍以上の復帰変異コロニー数の増加は認められなかった。

一方、陽性対照物質は、各試験菌株に対し明確な突然変異誘発作用を示した。

また、用量設定試験 (追加試験)、本試験および本試験 (確認試験) により、試験結果の再現性が確認された。