

Table 2-21. A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Grip strength (Week 4)

Sex	Dose mg/kg		Fore limb g	Hind limb g
Male	0	No.	12	12
		Mean	906	534
		S.D.	95	71
	15	No.	6	6
		Mean	965	620
		S.D.	199	98
	60	No.	6	6
		Mean	912	583
		S.D.	164	89
	250	No.	12	12
		Mean	1021	533
		S.D.	252	139
Female	0	No.	12	12
		Mean	902	426
		S.D.	114	72
	15	No.	6	6
		Mean	808	472
		S.D.	138	94
	60	No.	6	6
		Mean	857	390
		S.D.	190	57
	250	No.	12	12
		Mean	925	455
		S.D.	189	89

No significant difference in any treated groups from control group.

Table 2-22 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Grip strength (Week 2 of recovery)

Sex	Dose mg/kg		Fore limb g	Hind limb g
Male	0	No.	6	6
		Mean	1398	653
		S.D.	204	135
	250	No.	6	6
		Mean	1362	665
		S.D.	95	108
Female	0	No.	6	6
		Mean	1032	540
		S.D.	79	99
	250	No.	6	6
		Mean	1134	571
		S.D.	94	75

No significant difference between treated group and control group.

Table 2-23 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Motor activity (Week 4)

Sex	Dose mg/kg		Interval (minutes)						Total(0-60)
			0-10	10-20	20-30	30-40	40-50	50-60	
Male	0	No.	12	12	12	12	12	12	12
		Mean	415	361	335	355	308	317	2090
		S.D.	46	44	70	67	101	148	339
	15	No.	6	6	6	6	6	6	6
		Mean	421	373	318	232*	237	252	1832
		S.D.	35	79	80	131D	171	193	622
	60	No.	6	6	6	6	6	6	6
		Mean	438	396	372	348	314	261	2128
		S.D.	26	47	37	54	100	147	201
	250	No.	12	12	12	12	12	12	12
		Mean	422	366	371	335	266	260	2019
		S.D.	27	30	60	91	134	153	384
Female	0	No.	12	12	12	12	12	12	12
		Mean	398	324	262	282	231	199	1695
		S.D.	48	84	73	100	121	124	337
	15	No.	6	6	6	6	6	6	6
		Mean	409	328	282	277	253	199	1748
		S.D.	34	50	84	126	121	99	367
	60	No.	6	6	6	6	6	6	6
		Mean	427	341	281	270	227	207	1753
		S.D.	48	30	49	51	129	105	283
	250	No.	12	12	12	12	12	12	12
		Mean	396	332	274	275	208	152	1637
		S.D.	47	42	83	127	129	129	442

* : p<0.05 (Significant difference from control group)

D : Dunnett's test

Table 2-24

A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
 Motor activity (Week 2 of recovery)

Sex	Dose mg/kg		Interval (minutes)						
			0-10	10-20	20-30	30-40	40-50	50-60	Total(0-60)
Male	0	No.	6	6	6	6	6	6	6
		Mean	381	276	272	307	287	226	1747
		S.D.	62	82	76	61	106	136	394
	250	No.	6	6	6	6	6	6	6
		Mean	364	304	311	264	262	229	1732
		S.D.	56	62	39	57	100	108	276
Female	0	No.	6	6	6	6	6	6	6
		Mean	359	321	252	236	206	118	1492
		S.D.	64	20	79	50	149	106	330
	250	No.	6	6	6	6	6	6	6
		Mean	398	299	270	239	194	161	1561
		S.D.	50	127	69	127	127	129	418

No significant difference between treated group and control group.

Table 3-1 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Body weight (Administration period)

Sex	Dose mg/kg		Day of administration								Gain 1-28	
			1	4	7	10	14	17	21	24		28
Male	0	No.	12	12	12	12	12	12	12	12	12	12
		Mean	212	240	260	283	316	337	358	371	391	179
		S.D.	7	7	10	12	13	15	18	21	20	19
	15	No.	6	6	6	6	6	6	6	6	6	6
		Mean	212	240	265	286	322	346	369	384	398	187
		S.D.	5	7	10	13	17	21	25	25	28	24
	60	No.	6	6	6	6	6	6	6	6	6	6
		Mean	213	242	265	284	316	338	357	373	391	179
		S.D.	7	11	16	21	30	36	41	46	53	47
	250	No.	12	12	12	12	12	12	12	12	12	12
		Mean	213	240	264	285	317	339	357	370	386	174
		S.D.	8	9	12	16	20	23	25	27	30	25
Female	0	No.	12	12	12	12	12	12	12	12	12	12
		Mean	151	162	167	178	192	202	212	220	229	78
		S.D.	5	8	8	12	13	15	17	19	21	18
	15	No.	6	6	6	6	6	6	6	6	6	6
		Mean	150	162	167	177	190	198	207	216	224	74
		S.D.	8	7	6	7	9	12	13	13	14	10
	60	No.	6	6	6	6	6	6	6	6	6	6
		Mean	152	163	166	179	191	202	212	218	227	75
		S.D.	7	6	4	9	11	12	12	13	14	10
	250	No.	12	12	12	12	12	12	12	12	12	12
		Mean	152	163	168	179	193	205	214	221	227	76
		S.D.	3	3	4	7	10	11	11	11	12	11

Unit : g
No significant difference in any treated groups from control group.

Table 3-2 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Body weight (Recovery period)

Sex	Dose mg/kg		Day of recovery					Gain 1-14
			1	3	7	10	14	
Male	0	No.	6	6	6	6	6	6
		Mean	406	415	434	449	457	51
		S.D.	10	11	13	13	14	8
	250	No.	6	6	6	6	6	6
		Mean	380	388	408	422	430	50
		S.D.	33	31	37	40	40	11
Female	0	No.	6	6	6	6	6	6
		Mean	228	235	241	247	249	21
		S.D.	27	29	29	32	33	9
	250	No.	6	6	6	6	6	6
		Mean	230	233	235	241	243	13
		S.D.	11	9	11	14	11	3

Unit : g

No significant difference between treated group and control group.

Table 4-1 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Food consumption (Administration period)

Sex	Dose mg/kg		Day of administration								
			1	4	7	10	14	17	21	24	28
Male	0	No.	12	12	12	12	12	12	12	12	12
		Mean	23	24	25	27	27	26	27	25	28
		S.D.	2	2	2	2	2	2	2	2	2
	15	No.	6	6	6	6	6	6	6	6	6
		Mean	24	24	26	28	28	29	28	27	28
		S.D.	1	1	1	1	1	2	2	1	2
	60	No.	6	6	6	6	6	6	6	6	6
		Mean	24	25	26	28	27	27	27	26	28
		S.D.	2	2	3	3	4	4	4	4	5
	250	No.	12	12	12	12	12	12	12	12	12
		Mean	24	24	26	28	27	28	27	28*	28
		S.D.	2	1	2	2	2	2	2	3D	2
Female	0	No.	12	12	12	12	12	12	12	12	12
		Mean	17	17	17	18	18	18	19	19	20
		S.D.	2	2	1	2	2	2	2	3	2
	15	No.	6	6	6	6	6	6	6	6	6
		Mean	16	17	16	18	17	17	18	18	19
		S.D.	2	1	1	1	1	1	1	1	1
	60	No.	6	6	6	6	6	6	6	6	6
		Mean	17	17	16	18	18	18	18	17	19
		S.D.	2	1	2	2	2	2	1	1	1
	250	No.	12	12	12	12	12	12	12	12	12
		Mean	17	16	16	18	18	19	19	18	20
		S.D.	1	1	1	2	1	1	1	2	2

Unit : g/rat/day

* : p<0.05 (Significant difference from control group)

D : Dunnett's test

Table 4-2 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
 Food consumption (Recovery period)

Sex	Dose mg/kg		Day of recovery			
			3	7	10	14
Male	0	No.	6	6	6	6
		Mean	29	28	28	27
		S.D.	1	2	2	2
	250	No.	6	6	6	6
		Mean	30	29	29	27
		S.D.	2	3	3	3
Female	0	No.	6	6	6	6
		Mean	21	19	19	18
		S.D.	3	3	3	3
	250	No.	6	6	6	6
		Mean	21	19	20	19
		S.D.	2	2	2	1

Unit : g/rat/day

No significant difference between treated group and control group.

Table 5-1 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Urinalysis (Week 4)

Sex	Dose mg/kg	No.	pH									1) Protein					2) Ketone body					3) Glucose							
			5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	-	+-	+	++	+++	++++	-	+-	+	++	+++	++++	-	+-	+	++	+++	++++
Male	0	12	0	0	0	0	0	0	5	7	0	3	7	2	0	0	0	9	3	0	0	0	0	12	0	0	0	0	0
	15	6	0	0	0	0	0	0	0	6	0	0	5	1	0	0	0	4	2	0	0	0	0	6	0	0	0	0	0
	60	6	0	0	0	0	0	1	1	4	0	4	2	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0
	250	12	0	0	0	0	0	0	2	8	2	2	5	4	1	0	0	9	2	1	0	0	0	12	0	0	0	0	0
Female	0	12	0	0	0	1	2	1	3	4	1	11	0	1	0	0	0	11	1	0	0	0	0	12	0	0	0	0	0
	15	6	0	0	0	0	1	0	0	4	1	4	2	0	0	0	0	5	1	0	0	0	0	6	0	0	0	0	0
	60	6	0	0	0	0	1	3	1	1	0	4	1	1	0	0	0	4	1	1	0	0	0	6	0	0	0	0	0
	250	12	0	0	0	1	0	1	3	5	2	8	3	1	0	0	0	10	2	0	0	0	0	12	0	0	0	0	0
1)	-	<10 mg/dL	+-	10 - 25 mg/dL	+	26 - 85 mg/dL	++	86 - 250 mg/dL	+++	251 - 600 mg/dL	++++	>600 mg/dL																	
2)	-	<5 mg/dL	+-	5 - 7.5 mg/dL	+	7.6 - 30 mg/dL	++	31 - 70 mg/dL	+++	71 - 125 mg/dL	++++	>125 mg/dL																	
3)	-	<30 mg/dL	+-	30 - 60 mg/dL	+	61 - 125 mg/dL	++	126 - 250 mg/dL	+++	251 - 750 mg/dL	++++	>750 mg/dL																	

Table 5-2 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Urinalysis (Week 4)

Sex	Dose mg/kg	No.	4) Occult blood				5) Bilirubin					6) Urobilinogen				7) Color					
			-	+-	+	++	+++	-	+	++	+++	++++	+-	+	++	+++	++++	LY	Y	DY	
Male	0	12	12	0	0	0	0	12	0	0	0	0	0	12	0	0	0	0	0	12	0
	15	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0	6	0
	60	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0	6	0
	250	12	12	0	0	0	0	12	0	0	0	0	0	12	0	0	0	0	0	3	9
Female	0	12	12	0	0	0	0	12	0	0	0	0	0	12	0	0	0	0	0	12	0
	15	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0	6	0
	60	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0	6	0
	250	12	12	0	0	0	0	12	0	0	0	0	0	12	0	0	0	0	0	12	0

4) - : <0.03 mg/dL +- : 0.03 - 0.05 mg/dL + : 0.06 - 0.15 mg/dL ++ : 0.16 - 0.75 mg/dL +++ : >0.75 mg/dL
5) - : <0.5 mg/dL + : 0.5 - 1.5 mg/dL ++ : 1.6 - 5.0 mg/dL +++ : 5.1 - 10.0 mg/dL ++++ : >10.0 mg/dL
6) +- : <2.0 mg/dL + : 2.0 - 3.5 mg/dL ++ : 3.6 - 7.0 mg/dL +++ : 7.1 - 12.0 mg/dL ++++ : >12.0 mg/dL
7) LY : Light yellow Y : Yellow DY : Dark yellow

Table 5-3 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Urinalysis (Week 4)

Sex	Dose mg/kg	No.	URINE SEDIMENT																																
			RBC				WBC				SEC				SREC			Cast			CRYSTALLIZATION														
			-	+-	+	++	+++	-	+-	+	++	+++	-	+-	+	++	+++	-	+-	+	-	+-	+	++	+++	-	+-	+	++	+++					
Male	0	12	12	0	0	0	0	12	0	0	0	0	0	12	0	0	0	12	0	0	0	0	12	0	0	5	7	0	0	0	12	0	0	0	0
	15	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	6	0	0	4	2	0	0	0	6	0	0	0	0
	60	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	6	0	0	6	0	0	0	0	6	0	0	0	0
	250	12	12	0	0	0	0	12	0	0	0	0	0	11	1	0	0	12	0	0	0	0	12	0	0	8	4	0	0	0	12	0	0	0	0
Female	0	12	12	0	0	0	0	12	0	0	0	0	0	11	1	0	0	12	0	0	0	0	12	0	0	8	4	0	0	0	12	0	0	0	0
	15	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	6	0	0	3	3	0	0	0	6	0	0	0	0
	60	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	6	0	0	3	3	0	0	0	6	0	0	0	0
	250	12	12	0	0	0	0	12	0	0	0	0	0	12	0	0	0	12	0	0	0	0	12	0	0	4	8	0	0	0	12	0	0	0	0

SEC : Squamous Epithelial Cell - : Negative
 SREC : Small Round Epithelial Cell +- : Slight
 PS : Phosphate Salts + : Mild
 CO : Calcium Oxalate ++ : Moderate
 +++ : Severe

Table 5-4 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Water intake and urinalysis (Week 4)

Sex	Dose mg/kg	No.		Water intake mL/24h	Urine volume mL/24h	Osmolality mOsm/kg
Male	0	12	Mean	37	11.6	1871
			S.D.	6	3.8	286
	15	6	Mean	38	12.6	1784
			S.D.	5	6.4	307
	60	6	Mean	40	13.7	1914
			S.D.	7	3.9	391
	250	12	Mean	51**	14.0	1635
			S.D.	12D	5.2	486
Female	0	12	Mean	32	8.7	2142
			S.D.	15	6.7	786
	15	6	Mean	25	6.3	2056
			S.D.	4	1.6	288
	60	6	Mean	28	4.8	2432
			S.D.	6	1.5	456
	250	12	Mean	26	5.9	2010
			S.D.	6	3.4	324

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

Table 5-5 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Urinalysis (Week 2 of recovery)

Sex	Dose mg/kg	No.	pH									1) Protein					2) Ketone body					3) Glucose							
			5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	-	+-	+	++	+++	++++	-	+-	+	++	+++	++++	-	+-	+	++	+++	++++
Male	0	6	0	0	0	0	0	1	2	2	1	1	4	1	0	0	0	4	1	1	0	0	0	6	0	0	0	0	0
	250	6	0	0	0	0	0	0	3	2	1	1	3	2	0	0	0	4	1	1	0	0	0	6	0	0	0	0	0
Female	0	6	0	0	0	1	1	1	0	3	0	4	0	2	0	0	0	4	1	1	0	0	0	6	0	0	0	0	0
	250	6	0	0	0	1	0	0	2	2	1	0	4	2	0	0	0	1	4	1	0	0	0	6	0	0	0	0	0

1)	-	<10 mg/dL	+-	: 10 - 25 mg/dL	+	: 26 - 85 mg/dL	++	: 86 - 250 mg/dL	+++	: 251 - 600 mg/dL	++++	: >600 mg/dL
2)	-	<5 mg/dL	+-	: 5 - 7.5 mg/dL	+	: 7.6 - 30 mg/dL	++	: 31 - 70 mg/dL	+++	: 71 - 125 mg/dL	++++	: >125 mg/dL
3)	-	<30 mg/dL	+-	: 30 - 60 mg/dL	+	: 61 - 125 mg/dL	++	: 126 - 250 mg/dL	+++	: 251 - 750 mg/dL	++++	: >750 mg/dL

Table 5-6 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Urinalysis (Week 2 of recovery)

Sex	Dose mg/kg	No.	4) Occult blood					5) Bilirubin					6) Urobilinogen					7) Color		
			-	+-	+	++	+++	-	+	++	+++	++++	+-	+	++	+++	++++	LY	Y	DY
Male	0	6	6	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0	6	0
	250	6	6	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0	6	0
Female	0	6	6	0	0	0	0	6	0	0	0	0	6	0	0	0	0	0	6	0
	250	6	6	0	0	0	0	6	0	0	0	0	5	1	0	0	0	0	6	0

4) - : <0.03 mg/dL +- : 0.03 - 0.05 mg/dL + : 0.06 - 0.15 mg/dL ++ : 0.16 - 0.75 mg/dL +++ : >0.75 mg/dL
5) - : <0.5 mg/dL + : 0.5 - 1.5 mg/dL ++ : 1.6 - 5.0 mg/dL +++ : 5.1 - 10.0 mg/dL ++++ : >10.0 mg/dL
6) +- : <2.0 mg/dL + : 2.0 - 3.5 mg/dL ++ : 3.6 - 7.0 mg/dL +++ : 7.1 - 12.0 mg/dL ++++ : >12.0 mg/dL
7) LY : Light yellow Y : Yellow DY : Dark yellow

Table 5-7 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Urinalysis (Week 2 of recovery)

Sex	Dose mg/kg	No.	URINE SEDIMENT																																
			RBC					WBC					SEC					SREC					Cast			CRYSTALLIZATION									
			-	+-	+	++	+++	-	+-	+	++	+++	-	+-	+	++	+++	-	+-	+	++	+++	-	+-	+	-	+-	+	++	+++	-	+-	+	++	+++
Male	0	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	6	0	0	3	3	0	0	0	6	0	0	0	0
	250	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	6	0	0	3	3	0	0	0	6	0	0	0	0
Female	0	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	6	0	0	4	2	0	0	0	6	0	0	0	0
	250	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	6	0	0	3	3	0	0	0	6	0	0	0	0

SEC : Squamous Epithelial Cell - : Negative
 SREC : Small Round Epithelial Cell +- : Slight
 PS : Phosphate Salts + : Mild
 CO : Calcium Oxalate ++ : Moderate
 +++ : Severe

Table 5-8 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Water intake and urinalysis (Week 2 of recovery)

Sex	Dose mg/kg	No.		Water intake mL/24h	Urine volume mL/24h	Osmolality mOsm/kg
Male	0	6	Mean	40	13.4	1910
			S.D.	5	4.7	220
	250	6	Mean	51	16.3	1644
			S.D.	12	6.2	500
Female	0	6	Mean	32	7.8	1862
			S.D.	10	3.2	237
	250	6	Mean	33	5.9	2254*
			S.D.	7	2.4	309T

* : p<0.05 (Significant difference from control group)

T : Student's t-test

Table 6-1 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Hematology (Day 28)

Sex	Dose mg/kg	No.		RBC ×10 ⁴ /μL	Hb g/dL	Ht %	MCV fL	MCH pg	MCHC %	Reticu- loocyte %	Plate- let ×10 ⁴ /μL	PT s	APTT s	Fibri- nogen mg/dL
Male	0	6	Mean	769	15.8	47	60.4	20.5	33.9	2.3	100.8	16.5	25.2	280
			S.D.	33	0.7	2	0.8	0.4	0.7	0.4	4.3	2.4	2.5	31
	15	6	Mean	773	16.1	47	61.0	20.8	34.2	2.0	106.3	16.3	25.2	319
			S.D.	22	0.3	1	1.6	0.5	0.5	0.2	11.3	2.2	4.6	19
	60	6	Mean	770	15.8	46	59.7	20.6	34.4	2.2	111.5	18.5	26.8	321
			S.D.	39	0.5	2	1.7	0.6	0.7	0.3	11.3	2.4	3.0	30
	250	6	Mean	778	15.8	46	58.9	20.3	34.5	2.4	120.6**	24.1**	36.7**	411**
			S.D.	44	0.5	2	1.7	0.5	0.5	0.6	12.4D	2.2D	3.8D	31D
Female	0	6	Mean	757	15.9	45	59.5	20.9	35.2	2.0	113.2	12.0	15.9	239
			S.D.	32	0.5	2	0.6	0.3	0.5	0.3	6.5	0.7	2.3	18
	15	6	Mean	772	16.0	45	58.7	20.7	35.2	2.0	117.7	12.0	18.9	240
			S.D.	15	0.5	1	1.2	0.5	0.4	0.4	5.8	0.4	2.9	21
	60	6	Mean	753	15.6	45	59.0	20.8	35.1	1.9	119.3	11.7	18.0	253
			S.D.	36	0.8	2	1.6	0.8	0.6	0.4	9.2	0.6	2.6	23
	250	6	Mean	757	15.4	44	58.1	20.4	35.1	2.0	127.3*	13.9	23.6**	308**
			S.D.	47	0.9	2	0.9	0.3	0.3	0.5	10.5D	1.9	3.9D	29D

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

Table 6-2 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Hematology (Day 28)

Sex	Dose mg/kg	No.		WBC	Differential leukocyte counts (%)						Erythroblast counts	
				$\times 10^2/\mu\text{L}$	Lymph.	Stab	Seg.	Eosino.	Baso.	Mono.	Others	(/200 leukocyte)
Male	0	6	Mean	93	83.1	0.3	15.0	0.6	0.0	1.0	0.0	0
			S.D.	22	7.2	0.4	7.2	0.5	0.0	0.6	0.0	0
	15	6	Mean	88	87.1	0.3	10.9	0.4	0.0	1.3	0.0	0
			S.D.	26	3.7	0.3	3.8	0.5	0.0	0.7	0.0	0
	60	6	Mean	95	86.7	0.4	11.5	0.4	0.0	1.0	0.0	0
			S.D.	27	3.8	0.2	3.9	0.5	0.0	0.5	0.0	0
	250	6	Mean	99	89.3	0.3	9.4	0.3	0.0	0.8	0.0	0
			S.D.	35	4.1	0.3	4.1	0.4	0.0	0.5	0.0	0
Female	0	6	Mean	76	86.3	0.4	12.1	0.7	0.0	0.6	0.0	0
			S.D.	8	6.3	0.4	5.8	0.7	0.0	0.6	0.0	0
	15	6	Mean	76	82.8	0.5	15.4	0.6	0.0	0.7	0.0	0
			S.D.	12	3.4	0.3	3.4	0.4	0.0	0.6	0.0	0
	60	6	Mean	69	84.2	0.5	14.1	0.5	0.0	0.8	0.0	0
			S.D.	19	2.9	0.3	2.4	0.6	0.0	0.7	0.0	0
	250	6	Mean	85	84.5	0.4	13.6	0.6	0.0	0.9	0.0	0
			S.D.	16	7.6	0.6	6.7	0.7	0.0	0.4	0.0	0

No significant difference in any treated groups from control group.

Table 6-3

A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Hematology (Week 2 of recovery)

Sex	Dose mg/kg	No.		RBC X10 ⁶ /μL	Hb g/dL	Ht %	MCV fL	MCH pg	MCHC %	Reticu- loocyte %	Plate- let X10 ⁴ /μL	PT s	APTT s	Fibri- nogen mg/dL
Male	0	6	Mean	815	16.4	47	57.0	20.1	35.3	2.2	95.2	15.0	24.3	344
			S.D.	23	0.3	1	1.1	0.5	0.6	0.4	4.4	1.7	1.6	32
	250	6	Mean	777*	16.0	45*	57.9	20.6	35.5	2.5	105.5**	16.5	22.6	311
			S.D.	23T	0.5	1T	1.0	0.4	0.3	0.3	4.2T	3.8	2.7	38
Female	0	6	Mean	772	15.5	44	57.3	20.1	35.2	2.3	107.0	11.5	15.3	221
			S.D.	19	0.4	1	1.0	0.4	0.5	0.4	7.7	0.4	1.6	30
	250	6	Mean	764	15.7	44	57.7	20.5	35.5	2.2	106.0	11.1	15.8	249
			S.D.	27	0.2	1	1.8	0.7	0.3	0.5	8.6	0.7	2.7	43

* : p<0.05 ; ** : p<0.01 (Significant difference from control group)

T : Student's t-test

Table 6-4 A 28-day oral toxicity study of 2,6-di-tert-butyl-4-ethylphenol in rats with a recovery period of 2 weeks
Hematology (Week 2 of recovery)

Sex	Dose mg/kg	No.		WBC	Differential leukocyte counts (%)							Erythroblast counts
				X10 ³ /μL	Lymph.	Stab	Seg.	Eosino.	Baso.	Mono.	Others	(/200 leukocyte)
Male	0	6	Mean	105	87.8	0.2	11.0	0.5	0.0	0.6	0.0	0
			S.D.	18	5.5	0.3	5.3	0.3	0.0	0.5	0.0	0
	250	6	Mean	99	87.3	0.3	11.4	0.5	0.0	0.4	0.0	0
			S.D.	22	1.6	0.3	1.5	0.8	0.0	0.4	0.0	0
Female	0	6	Mean	87	84.2	0.3	14.3	0.8	0.0	0.5	0.0	0
			S.D.	19	6.1	0.3	5.8	0.6	0.0	0.6	0.0	0
	250	6	Mean	72	86.3	0.3	12.0	0.8	0.0	0.8	0.0	0
			S.D.	7	3.9	0.3	3.6	0.6	0.0	0.4	0.0	0

No significant difference between treated group and control group.