

2-メチル-1-プロパノールのマウスを用いた
経口投与による 13 週間毒性試験（混水試験）報告書

試験番号：0572

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TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE MICE
IN THE 13-WEEK DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. Wt. <10>	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.
0	24.0 (10)	10 / 10	23.9 (10)	100	10 / 10	23.9 (10)	100	10 / 10	23.9 (10)	100	10 / 10	23.9 (10)	100	10 / 10	23.9 (10)	100	10 / 10
1	24.4 (10)	10 / 10	24.3 (10)	100	10 / 10	24.1 (10)	99	10 / 10	24.6 (10)	101	10 / 10	24.4 (10)	100	10 / 10	23.8 (10)	98	10 / 10
2	25.1 (10)	10 / 10	25.3 (10)	101	10 / 10	25.3 (10)	101	10 / 10	25.8 (10)	103	10 / 10	25.1 (10)	100	10 / 10	24.5 (10)	98	10 / 10
3	26.2 (10)	10 / 10	25.8 (10)	98	10 / 10	25.9 (10)	99	10 / 10	25.7 (10)	98	10 / 10	25.8 (10)	98	10 / 10	25.3 (10)	97	10 / 10
4	26.8 (10)	10 / 10	26.9 (10)	100	10 / 10	27.0 (10)	101	10 / 10	26.8 (10)	100	10 / 10	26.8 (10)	100	10 / 10	26.2 (10)	98	10 / 10
5	27.7 (10)	10 / 10	27.7 (10)	100	10 / 10	27.6 (10)	100	10 / 10	28.0 (10)	101	10 / 10	27.5 (10)	99	10 / 10	26.8 (10)	97	10 / 10
6	28.3 (10)	10 / 10	28.6 (10)	101	10 / 10	28.4 (10)	100	10 / 10	29.0 (10)	102	10 / 10	27.9 (10)	99	10 / 10	27.4 (10)	97	10 / 10
7	28.6 (10)	10 / 10	28.8 (10)	101	10 / 10	28.7 (10)	100	10 / 10	29.1 (10)	102	10 / 10	28.5 (10)	100	10 / 10	27.6 (10)	97	10 / 10
8	30.0 (10)	10 / 10	30.5 (10)	102	10 / 10	30.7 (10)	102	10 / 10	30.5 (10)	102	10 / 10	29.9 (10)	100	10 / 10	29.0 (10)	97	10 / 10
9	29.8 (10)	10 / 10	30.4 (10)	102	10 / 10	30.1 (10)	101	10 / 10	30.1 (10)	101	10 / 10	29.9 (10)	100	10 / 10	28.6 (10)	96	10 / 10
10	30.7 (10)	10 / 10	31.4 (10)	102	10 / 10	30.9 (10)	101	10 / 10	30.9 (10)	101	10 / 10	30.4 (10)	99	10 / 10	29.2 (10)	95	10 / 10
11	31.1 (10)	10 / 10	32.1 (10)	103	10 / 10	31.6 (10)	102	10 / 10	31.5 (10)	101	10 / 10	30.9 (10)	99	10 / 10	30.1 (10)	97	10 / 10
12	32.1 (10)	10 / 10	32.9 (10)	102	10 / 10	32.5 (10)	101	10 / 10	32.4 (10)	101	10 / 10	31.8 (10)	99	10 / 10	30.6 (10)	95	10 / 10
13	32.6 (10)	10 / 10	33.5 (10)	103	10 / 10	32.7 (10)	100	10 / 10	32.2 (10)	99	10 / 10	32.3 (10)	99	10 / 10	30.9 (10)	95	10 / 10

< > : No. of effective animals, () : No. of measured animals, Av. Wt. : Averaged body weight (Unit : g).

TABLE 2 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. Wt. <10>	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.	Av. Wt. <10>	% of cont.	No. of Surviv.
0	19.4 (10)	10 / 10	19.4 (10)	100	10 / 10	19.4 (10)	100	10 / 10	19.4 (10)	100	10 / 10	19.4 (10)	100	10 / 10	19.4 (10)	100	10 / 10
1	19.2 (10)	10 / 10	19.3 (10)	101	10 / 10	19.4 (10)	101	10 / 10	19.2 (10)	100	10 / 10	19.4 (10)	101	10 / 10	19.1 (10)	99	10 / 10
2	20.3 (10)	10 / 10	20.2 (10)	100	10 / 10	20.5 (10)	101	10 / 10	19.9 (10)	98	10 / 10	20.5 (10)	101	10 / 10	20.0 (10)	99	10 / 10
3	21.2 (10)	10 / 10	20.5 (10)	97	10 / 10	20.6 (10)	97	10 / 10	20.4 (10)	96	10 / 10	20.5 (10)	97	10 / 10	20.5 (10)	97	10 / 10
4	21.0 (10)	10 / 10	21.0 (10)	100	10 / 10	21.4 (10)	102	10 / 10	20.8 (10)	99	10 / 10	20.9 (10)	100	10 / 10	21.0 (10)	100	10 / 10
5	21.9 (10)	10 / 10	21.4 (10)	98	10 / 10	21.7 (10)	99	10 / 10	21.2 (10)	97	10 / 10	21.5 (10)	98	10 / 10	21.3 (10)	97	10 / 10
6	22.1 (10)	10 / 10	22.4 (10)	101	10 / 10	21.9 (10)	99	10 / 10	21.7 (10)	98	10 / 10	21.9 (10)	99	10 / 10	21.9 (10)	99	10 / 10
7	22.7 (10)	10 / 10	22.5 (10)	99	10 / 10	22.7 (10)	100	10 / 10	22.3 (10)	98	10 / 10	22.7 (10)	100	10 / 10	22.3 (10)	98	10 / 10
8	23.7 (10)	10 / 10	23.3 (10)	98	10 / 10	22.9 (10)	97	10 / 10	23.5 (10)	99	10 / 10	23.2 (10)	98	10 / 10	23.1 (10)	97	10 / 10
9	23.0 (10)	10 / 10	23.2 (10)	101	10 / 10	22.8 (10)	99	10 / 10	22.9 (10)	100	10 / 10	23.2 (10)	101	10 / 10	23.0 (10)	100	10 / 10
10	23.3 (10)	10 / 10	23.4 (10)	100	10 / 10	23.0 (10)	99	10 / 10	22.9 (10)	98	10 / 10	23.4 (10)	100	10 / 10	23.3 (10)	100	10 / 10
11	23.2 (10)	10 / 10	23.5 (10)	101	10 / 10	23.5 (10)	101	10 / 10	23.3 (10)	100	10 / 10	23.7 (10)	102	10 / 10	23.7 (10)	102	10 / 10
12	23.6 (10)	10 / 10	24.0 (10)	102	10 / 10	23.0 (10)	97	10 / 10	23.6 (10)	100	10 / 10	23.8 (10)	101	10 / 10	24.0 (10)	102	10 / 10
13	23.6 (10)	10 / 10	24.1 (10)	102	10 / 10	23.7 (10)	100	10 / 10	23.5 (10)	100	10 / 10	23.8 (10)	101	10 / 10	24.0 (10)	102	10 / 10

< > : No. of effective animals, () : No. of measured animals, Av. Wt. : Averaged body weight (Unit : g).

TABLE 3 FOOD CONSUMPTION CHANGES OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. FC. <10>	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.
1	4.2 (10)	10 / 10	4.1 (10)	98	10 / 10	4.1 (10)	98	10 / 10	4.2 (10)	100	10 / 10	3.9 (10)	93	10 / 10	3.6 (10)	86	10 / 10
2	4.1 (10)	10 / 10	4.1 (10)	100	10 / 10	4.0 (10)	98	10 / 10	4.2 (10)	102	10 / 10	3.9 (10)	95	10 / 10	3.7 (10)	90	10 / 10
3	4.1 (10)	10 / 10	4.0 (10)	98	10 / 10	4.0 (10)	98	10 / 10	3.8 (10)	93	10 / 10	3.9 (10)	95	10 / 10	3.9 (10)	95	10 / 10
4	4.1 (10)	10 / 10	4.1 (10)	100	10 / 10	4.0 (10)	98	10 / 10	4.0 (10)	98	10 / 10	3.9 (10)	95	10 / 10	3.7 (10)	90	10 / 10
5	4.1 (10)	10 / 10	4.1 (10)	100	10 / 10	4.0 (10)	98	10 / 10	4.1 (10)	100	10 / 10	3.9 (10)	95	10 / 10	3.8 (10)	93	10 / 10
6	4.1 (10)	10 / 10	4.2 (10)	102	10 / 10	4.1 (10)	100	10 / 10	4.1 (10)	100	10 / 10	3.9 (10)	95	10 / 10	3.7 (10)	90	10 / 10
7	4.1 (10)	10 / 10	4.1 (10)	100	10 / 10	4.0 (10)	98	10 / 10	4.1 (10)	100	10 / 10	3.9 (10)	95	10 / 10	3.6 (10)	88	10 / 10
8	4.1 (10)	10 / 10	4.2 (10)	102	10 / 10	4.1 (10)	100	10 / 10	4.2 (10)	102	10 / 10	3.9 (10)	95	10 / 10	3.7 (10)	90	10 / 10
9	4.2 (10)	10 / 10	4.3 (10)	102	10 / 10	4.2 (10)	100	10 / 10	4.2 (10)	100	10 / 10	4.1 (10)	98	10 / 10	3.7 (10)	88	10 / 10
10	4.3 (10)	10 / 10	4.3 (10)	100	10 / 10	4.2 (10)	98	10 / 10	4.2 (10)	98	10 / 10	4.0 (10)	93	10 / 10	3.9 (10)	91	10 / 10
11	4.3 (10)	10 / 10	4.4 (10)	102	10 / 10	4.2 (10)	98	10 / 10	4.2 (10)	98	10 / 10	4.1 (10)	95	10 / 10	3.9 (10)	91	10 / 10
12	4.4 (10)	10 / 10	4.4 (10)	100	10 / 10	4.4 (10)	100	10 / 10	4.3 (10)	98	10 / 10	4.2 (10)	95	10 / 10	3.9 (10)	89	10 / 10
13	4.3 (10)	10 / 10	4.3 (10)	100	10 / 10	4.2 (10)	98	10 / 10	4.2 (10)	98	10 / 10	4.1 (10)	95	10 / 10	3.8 (10)	88	10 / 10

< > : No. of effective animals, () : No. of measured animals, Av. FC. : Averaged food consumption (Unit : g).

TABLE 4 FOOD CONSUMPTION CHANGES OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. FC. <10>	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.	Av. FC. <10>	% of cont.	No. of Surviv.
1	3.4 (10)	10 / 10	3.3 (10)	97	10 / 10	3.4 (10)	100	10 / 10	3.2 (10)	94	10 / 10	3.1 (10)	91	10 / 10	2.9 (10)	85	10 / 10
2	3.6 (10)	10 / 10	3.6 (10)	100	10 / 10	3.6 (10)	100	10 / 10	3.3 (10)	92	10 / 10	3.3 (10)	92	10 / 10	3.1 (10)	86	10 / 10
3	3.7 (10)	10 / 10	3.6 (10)	97	10 / 10	3.5 (10)	95	10 / 10	3.4 (10)	92	10 / 10	3.3 (10)	89	10 / 10	3.2 (10)	86	10 / 10
4	3.5 (10)	10 / 10	3.6 (10)	103	10 / 10	3.6 (10)	103	10 / 10	3.4 (10)	97	10 / 10	3.4 (10)	97	10 / 10	3.3 (10)	94	10 / 10
5	3.7 (10)	10 / 10	3.8 (10)	103	10 / 10	3.6 (10)	97	10 / 10	3.5 (10)	95	10 / 10	3.5 (10)	95	10 / 10	3.3 (10)	89	10 / 10
6	3.7 (10)	10 / 10	3.8 (10)	103	10 / 10	3.7 (10)	100	10 / 10	3.6 (10)	97	10 / 10	3.5 (10)	95	10 / 10	3.3 (10)	89	10 / 10
7	3.8 (10)	10 / 10	3.8 (10)	100	10 / 10	3.8 (10)	100	10 / 10	3.6 (10)	95	10 / 10	3.6 (10)	95	10 / 10	3.4 (10)	89	10 / 10
8	4.0 (10)	10 / 10	3.9 (10)	98	10 / 10	3.7 (10)	93	10 / 10	3.8 (10)	95	10 / 10	3.6 (10)	90	10 / 10	3.4 (10)	85	10 / 10
9	4.1 (10)	10 / 10	4.1 (10)	100	10 / 10	3.9 (10)	95	10 / 10	3.8 (10)	93	10 / 10	3.8 (10)	93	10 / 10	3.6 (10)	88	10 / 10
10	4.0 (10)	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10	3.7 (10)	93	10 / 10	3.7 (10)	93	10 / 10	3.6 (10)	90	10 / 10
11	3.8 (10)	10 / 10	3.9 (10)	103	10 / 10	3.9 (10)	103	10 / 10	3.8 (10)	100	10 / 10	3.8 (10)	100	10 / 10	3.6 (10)	95	10 / 10
12	4.0 (10)	10 / 10	4.0 (10)	100	10 / 10	3.8 (10)	95	10 / 10	3.9 (10)	98	10 / 10	3.8 (10)	95	10 / 10	3.7 (10)	93	10 / 10
13	4.0 (10)	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10	3.7 (10)	93	10 / 10	3.7 (10)	93	10 / 10	3.6 (10)	90	10 / 10

< > : No. of effective animals, () : No. of measured animals, Av. FC. : Averaged food consumption (Unit : g).

TABLE 5 WATER CONSUMPTION CHANGES OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. WC. <10>	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.
1	4.6 (10)	10 / 10	4.6 (10)	100	10 / 10	4.6 (10)	100	10 / 10	4.3 (10)	93	10 / 10	3.6 (10)	78	10 / 10	3.0 (10)	65	10 / 10
2	4.5 (10)	10 / 10	4.6 (10)	102	10 / 10	4.5 (10)	100	10 / 10	4.1 (10)	91	10 / 10	3.5 (10)	78	10 / 10	2.7 (10)	60	10 / 10
3	4.4 (10)	10 / 10	4.0 (10)	91	10 / 10	4.3 (9)	98	10 / 10	3.8 (9)	86	10 / 10	3.2 (10)	73	10 / 10	2.9 (10)	66	10 / 10
4	4.1 (10)	10 / 10	4.4 (10)	107	10 / 10	4.4 (10)	107	10 / 10	3.9 (10)	95	10 / 10	3.3 (10)	80	10 / 10	2.9 (10)	71	10 / 10
5	4.2 (10)	10 / 10	4.2 (10)	100	10 / 10	4.2 (10)	100	10 / 10	3.8 (10)	90	10 / 10	3.2 (10)	76	10 / 10	3.0 (10)	71	10 / 10
6	4.1 (10)	10 / 10	4.1 (10)	100	10 / 10	4.3 (10)	105	10 / 10	3.8 (10)	93	10 / 10	3.1 (10)	76	10 / 10	2.9 (10)	71	10 / 10
7	4.2 (10)	10 / 10	4.0 (10)	95	10 / 10	4.1 (10)	98	10 / 10	3.7 (10)	88	10 / 10	3.2 (10)	76	10 / 10	3.0 (10)	71	10 / 10
8	4.2 (10)	10 / 10	4.2 (10)	100	10 / 10	4.2 (10)	100	10 / 10	3.7 (10)	88	10 / 10	3.2 (10)	76	10 / 10	2.9 (10)	69	10 / 10
9	4.2 (10)	10 / 10	3.8 (10)	90	10 / 10	3.9 (10)	93	10 / 10	3.5 (10)	83	10 / 10	3.1 (10)	74	10 / 10	2.9 (10)	69	10 / 10
10	4.0 (9)	10 / 10	3.9 (10)	98	10 / 10	3.9 (10)	98	10 / 10	3.7 (10)	93	10 / 10	3.2 (10)	80	10 / 10	2.9 (10)	73	10 / 10
11	4.0 (10)	10 / 10	3.8 (10)	95	10 / 10	3.8 (10)	95	10 / 10	3.5 (10)	88	10 / 10	3.2 (10)	80	10 / 10	3.0 (10)	75	10 / 10
12	4.0 (10)	10 / 10	3.8 (10)	95	10 / 10	3.8 (10)	95	10 / 10	3.4 (10)	85	10 / 10	3.1 (10)	78	10 / 10	2.7 (10)	68	10 / 10
13	3.8 (10)	10 / 10	3.4 (10)	89	10 / 10	3.5 (10)	92	10 / 10	3.3 (10)	87	10 / 10	3.1 (10)	82	10 / 10	2.7 (10)	71	10 / 10

< > : No. of effective animals, () : No. of measured animals, Av. WC. : Averaged water consumption (Unit : g).

TABLE 6 WATER CONSUMPTION CHANGES OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

Week on Study	Control		2500 ppm			5000 ppm			10000 ppm			20000 ppm			40000 ppm		
	Av. WC. <10>	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.	Av. WC. <10>	% of cont.	No. of Surviv.
1	4.5 (10)	10 / 10	3.9 (10)	87	10 / 10	3.8 (10)	84	10 / 10	3.7 (10)	82	10 / 10	3.6 (10)	80	10 / 10	2.8 (10)	62	10 / 10
2	4.4 (10)	10 / 10	4.2 (10)	95	10 / 10	4.1 (10)	93	10 / 10	3.8 (10)	86	10 / 10	3.8 (10)	86	10 / 10	2.9 (10)	66	10 / 10
3	4.3 (10)	10 / 10	4.0 (10)	93	10 / 10	3.8 (10)	88	10 / 10	4.0 (10)	93	10 / 10	3.7 (10)	86	10 / 10	3.0 (10)	70	10 / 10
4	4.2 (10)	10 / 10	4.1 (10)	98	10 / 10	4.0 (10)	95	10 / 10	4.0 (10)	95	10 / 10	3.8 (10)	90	10 / 10	3.0 (10)	71	10 / 10
5	4.2 (10)	10 / 10	4.0 (10)	95	10 / 10	3.9 (10)	93	10 / 10	3.9 (10)	93	10 / 10	3.8 (10)	90	10 / 10	3.0 (10)	71	10 / 10
6	4.2 (10)	10 / 10	4.1 (10)	98	10 / 10	3.9 (10)	93	10 / 10	3.9 (10)	93	10 / 10	3.7 (10)	88	10 / 10	3.1 (10)	74	10 / 10
7	4.3 (10)	10 / 10	4.4 (10)	102	10 / 10	4.1 (10)	95	10 / 10	3.9 (10)	91	10 / 10	3.9 (10)	91	10 / 10	3.3 (10)	77	10 / 10
8	4.5 (10)	10 / 10	4.3 (10)	96	10 / 10	4.0 (10)	89	10 / 10	4.0 (10)	89	10 / 10	3.8 (10)	84	10 / 10	3.3 (10)	73	10 / 10
9	4.4 (10)	10 / 10	4.3 (10)	98	10 / 10	4.1 (10)	93	10 / 10	3.9 (10)	89	10 / 10	4.1 (10)	93	10 / 10	3.3 (10)	75	10 / 10
10	4.4 (10)	10 / 10	4.4 (10)	100	10 / 10	4.1 (10)	93	10 / 10	4.1 (10)	93	10 / 10	4.1 (10)	93	10 / 10	3.3 (10)	75	10 / 10
11	4.2 (10)	10 / 10	4.1 (10)	98	10 / 10	4.0 (10)	95	10 / 10	4.0 (10)	95	10 / 10	3.9 (10)	93	10 / 10	3.4 (10)	81	10 / 10
12	4.1 (10)	10 / 10	4.4 (10)	107	10 / 10	3.9 (10)	95	10 / 10	4.1 (10)	100	10 / 10	3.9 (10)	95	10 / 10	3.2 (10)	78	10 / 10
13	4.0 (10)	10 / 10	4.2 (10)	105	10 / 10	3.9 (10)	98	10 / 10	4.0 (10)	100	10 / 10	3.9 (10)	98	10 / 10	3.4 (10)	85	10 / 10

< > : No. of effective animals, () : No. of measured animals, Av. WC. : Averaged water consumption (Unit : g).

TABLE 7 BIOCHEMISTRY OF MALE MICE IN THE 13-WEEK DRINKING WATER STUDY
OF 2-METHYL-1-PROPANOL

Group Name	Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	40000 ppm
No. of examined animals	10	10	10	10	10	10
GLUCOSE (mg/dL)	194 ± 45	226 ± 39	197 ± 32	218 ± 36	229 ± 28	243 ± 37 *

Mean ± S.D.
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$ Test of Dunnett

TABLE 8 BIOCHEMISTRY OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY
OF 2-METHYL-1-PROPANOL

Group Name	Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	40000 ppm
No. of examined animals	10	10	10	10	10	10
UREA NITROGEN (mg/dL)	20.1 ± 2.8	20.6 ± 2.9	20.2 ± 2.0	19.1 ± 3.3	18.0 ± 2.4	16.3 ± 3.4 *

Mean ± S.D.
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$ Test of Dunnett

TABLE 9 URINALYSIS OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

Group Name		Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	40000 ppm
No. of examined animals		10	10	10	10	10	10
Protein	Grade						
	—	0	0	0	0	0	0
	±	0	0	0	0	0	0
	+	8	7	8	7	4	3
	2+	2	3	2	3	6	7
	3+	0	0	0	0	0	0
	4+	0	0	0	0	0	0
	Chi square test						*
Ketone body	—	3	1	4	0	1	0
	±	3	5	2	6	4	0
	+	3	3	4	3	4	9
	2+	1	1	0	1	1	1
	3+	0	0	0	0	0	0
	4+	0	0	0	0	0	0
		Chi square test					

Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$

TABLE 10 ORGAN WEIGHTS OF FEMALE MICE IN THE 13-WEEK DRINKING WATER STUDY OF 2-METHYL-1-PROPANOL

Group Name	Control	2500 ppm	5000 ppm	10000 ppm	20000 ppm	40000 ppm
No. of examined animal	10	10	10	10	10	10
Body weight (g)	21.0 ± 1.9	21.4 ± 0.9	21.0 ± 0.6	21.2 ± 0.8	21.3 ± 1.0	21.9 ± 0.9
Kidneys (g)	0.290 ± 0.013	0.309 ± 0.008 *	0.293 ± 0.014	0.298 ± 0.018	0.306 ± 0.011	0.322 ± 0.017 **
Kidneys (%)	1.394 ± 0.117	1.446 ± 0.064	1.392 ± 0.071	1.410 ± 0.105	1.436 ± 0.052	1.470 ± 0.069
Mean ± S.D.						
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$ Test of Dunnett						