

2-メチル-1-プロパノールのラットを用いた
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：0571

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TABLE 1 SURVIVAL ANIMAL NUMBERS AND BODY WEIGHT CHANGES OF MALE RATS
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	129 (10)	10 / 10	129 (10)	100	10 / 10	129 (10)	100	10 / 10	129 (10)	100	10 / 10	129 (10)	100	10 / 10	129 (10)	100	10 / 10
1	163 (10)	10 / 10	164 (10)	101	10 / 10	163 (10)	100	10 / 10	161 (10)	99	10 / 10	160 (10)	98	10 / 10	156 (10)	96	10 / 10
2	195 (10)	10 / 10	199 (10)	102	10 / 10	197 (10)	101	10 / 10	195 (10)	100	10 / 10	191 (10)	98	10 / 10	187 (10)	96	10 / 10
3	219 (10)	10 / 10	225 (10)	103	10 / 10	222 (10)	101	10 / 10	221 (10)	101	10 / 10	215 (10)	98	10 / 10	213 (10)	97	10 / 10
4	239 (10)	10 / 10	244 (10)	102	10 / 10	240 (10)	100	10 / 10	240 (10)	100	10 / 10	236 (10)	99	10 / 10	233 (10)	97	10 / 10
5	254 (10)	10 / 10	260 (10)	102	10 / 10	256 (10)	101	10 / 10	257 (10)	101	10 / 10	251 (10)	99	10 / 10	250 (10)	98	10 / 10
6	265 (10)	10 / 10	267 (10)	101	10 / 10	264 (10)	100	10 / 10	269 (10)	102	10 / 10	263 (10)	99	10 / 10	259 (10)	98	10 / 10
7	280 (10)	10 / 10	282 (10)	101	10 / 10	278 (10)	99	10 / 10	279 (10)	100	10 / 10	272 (10)	97	10 / 10	271 (10)	97	10 / 10
8	291 (10)	10 / 10	295 (10)	101	10 / 10	289 (10)	99	10 / 10	289 (10)	99	10 / 10	283 (10)	97	10 / 10	280 (10)	96	10 / 10
9	298 (10)	10 / 10	303 (10)	102	10 / 10	299 (10)	100	10 / 10	297 (10)	100	10 / 10	291 (10)	98	10 / 10	286 (10)	96	10 / 10
10	304 (10)	10 / 10	312 (10)	103	10 / 10	306 (10)	101	10 / 10	307 (10)	101	10 / 10	300 (10)	99	10 / 10	294 (10)	97	10 / 10
11	312 (10)	10 / 10	319 (10)	102	10 / 10	315 (10)	101	10 / 10	314 (10)	101	10 / 10	308 (10)	99	10 / 10	301 (10)	96	10 / 10
12	319 (10)	10 / 10	327 (10)	103	10 / 10	324 (10)	102	10 / 10	320 (10)	100	10 / 10	316 (10)	99	10 / 10	307 (10)	96	10 / 10
13	326 (10)	10 / 10	335 (10)	103	10 / 10	332 (10)	102	10 / 10	327 (10)	100	10 / 10	321 (10)	98	10 / 10	313 (10)	96	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 RATS 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	98 (10)	10 / 10	98 (10)	100	10 / 10	98 (10)	100	10 / 10	98 (10)	100	10 / 10	98 (10)	100	10 / 10	98 (10)	100	10 / 10
1	114 (10)	10 / 10	114 (10)	100	10 / 10	114 (10)	100	10 / 10	113 (10)	99	10 / 10	114 (10)	100	10 / 10	112 (10)	98	10 / 10
2	125 (10)	10 / 10	127 (10)	102	10 / 10	126 (10)	101	10 / 10	125 (10)	100	10 / 10	129 (10)	103	10 / 10	126 (10)	101	10 / 10
3	134 (10)	10 / 10	137 (10)	102	10 / 10	134 (10)	100	10 / 10	136 (10)	101	10 / 10	139 (10)	104	10 / 10	136 (10)	101	10 / 10
4	140 (10)	10 / 10	143 (10)	102	10 / 10	143 (10)	102	10 / 10	144 (10)	103	10 / 10	147 (10)	105	10 / 10	142 (10)	101	10 / 10
5	147 (10)	10 / 10	150 (10)	102	10 / 10	150 (10)	102	10 / 10	152 (10)	103	10 / 10	152 (10)	103	10 / 10	147 (10)	100	10 / 10
6	151 (10)	10 / 10	155 (10)	103	10 / 10	154 (10)	102	10 / 10	155 (10)	103	10 / 10	156 (10)	103	10 / 10	153 (10)	101	10 / 10
7	156 (10)	10 / 10	160 (10)	103	10 / 10	158 (10)	101	10 / 10	159 (10)	102	10 / 10	161 (10)	103	10 / 10	159 (10)	102	10 / 10
8	157 (10)	10 / 10	163 (10)	104	10 / 10	161 (10)	103	10 / 10	164 (10)	104	10 / 10	165 (10)	105	10 / 10	161 (10)	103	10 / 10
9	161 (10)	10 / 10	166 (10)	103	10 / 10	164 (10)	102	10 / 10	166 (10)	103	10 / 10	168 (10)	104	10 / 10	163 (10)	101	10 / 10
10	163 (10)	10 / 10	170 (10)	104	10 / 10	167 (10)	102	10 / 10	170 (10)	104	10 / 10	172 (10)	106	10 / 10	167 (10)	102	10 / 10
11	166 (10)	10 / 10	173 (10)	104	10 / 10	172 (10)	104	10 / 10	174 (10)	105	10 / 10	176 (10)	106	10 / 10	169 (10)	102	10 / 10
12	169 (10)	10 / 10	176 (10)	104	10 / 10	174 (10)	103	10 / 10	177 (10)	105	10 / 10	179 (10)	106	10 / 10	173 (10)	102	10 / 10
13	171 (10)	10 / 10	177 (10)	104	10 / 10	175 (10)	102	10 / 10	178 (10)	104	10 / 10	180 (10)	105	10 / 10	175 (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 RATS 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	14.3 (10)	10 / 10	14.1 (10)	99	10 / 10	13.8 (10)	97	10 / 10	13.3 (10)	93	10 / 10	12.7 (10)	89	10 / 10	11.1 (10)	78	10 / 10
2	15.7 (10)	10 / 10	15.7 (10)	100	10 / 10	15.3 (10)	97	10 / 10	14.8 (10)	94	10 / 10	14.2 (10)	90	10 / 10	13.0 (10)	83	10 / 10
3	16.5 (10)	10 / 10	16.1 (10)	98	10 / 10	15.3 (10)	93	10 / 10	15.3 (10)	93	10 / 10	14.5 (10)	88	10 / 10	13.4 (10)	81	10 / 10
4	16.2 (10)	10 / 10	15.9 (10)	98	10 / 10	15.3 (10)	94	10 / 10	15.0 (10)	93	10 / 10	14.5 (10)	90	10 / 10	13.4 (10)	83	10 / 10
5	15.9 (10)	10 / 10	15.8 (10)	99	10 / 10	15.3 (10)	96	10 / 10	15.0 (10)	94	10 / 10	14.4 (10)	91	10 / 10	13.7 (10)	86	10 / 10
6	15.3 (10)	10 / 10	15.1 (10)	99	10 / 10	14.4 (10)	94	10 / 10	14.6 (10)	95	10 / 10	14.2 (10)	93	10 / 10	13.3 (10)	87	10 / 10
7	15.4 (10)	10 / 10	15.7 (10)	102	10 / 10	15.1 (10)	98	10 / 10	14.6 (10)	95	10 / 10	14.0 (10)	91	10 / 10	13.0 (10)	84	10 / 10
8	15.5 (10)	10 / 10	15.6 (10)	101	10 / 10	15.3 (10)	99	10 / 10	15.0 (10)	97	10 / 10	14.4 (10)	93	10 / 10	13.3 (10)	86	10 / 10
9	15.4 (10)	10 / 10	15.6 (10)	101	10 / 10	15.2 (10)	99	10 / 10	15.0 (10)	97	10 / 10	14.5 (10)	94	10 / 10	13.4 (10)	87	10 / 10
10	15.5 (9)	10 / 10	15.7 (10)	101	10 / 10	14.9 (10)	96	10 / 10	14.6 (10)	94	10 / 10	14.2 (10)	92	10 / 10	13.2 (10)	85	10 / 10
11	15.0 (10)	10 / 10	15.3 (10)	102	10 / 10	15.1 (10)	101	10 / 10	14.7 (10)	98	10 / 10	14.4 (10)	96	10 / 10	13.2 (10)	88	10 / 10
12	15.2 (10)	10 / 10	15.1 (10)	99	10 / 10	15.0 (10)	99	10 / 10	14.3 (10)	94	10 / 10	14.1 (10)	93	10 / 10	12.9 (10)	85	10 / 10
13	15.7 (10)	10 / 10	15.8 (10)	101	10 / 10	15.3 (10)	97	10 / 10	14.8 (10)	94	10 / 10	14.3 (10)	91	10 / 10	13.4 (10)	85	10 / 10

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

TABLE 4 FOOD CONSUMPTION CHANGES OF FEMALE RATS 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	10.5 (10)	10 / 10	10.6 (10)	101	10 / 10	10.2 (10)	97	10 / 10	9.8 (10)	93	10 / 10	9.5 (10)	90	10 / 10	8.7 (10)	83	10 / 10
2	10.4 (10)	10 / 10	10.7 (10)	103	10 / 10	10.4 (10)	100	10 / 10	10.0 (10)	96	10 / 10	9.9 (10)	95	10 / 10	9.1 (10)	88	10 / 10
3	10.4 (10)	10 / 10	10.8 (10)	104	10 / 10	10.4 (10)	100	10 / 10	10.2 (10)	98	10 / 10	9.8 (10)	94	10 / 10	9.3 (10)	89	10 / 10
4	10.4 (10)	10 / 10	10.6 (10)	102	10 / 10	10.4 (10)	100	10 / 10	10.3 (10)	99	10 / 10	9.7 (10)	93	10 / 10	9.1 (10)	88	10 / 10
5	10.2 (10)	10 / 10	10.4 (10)	102	10 / 10	10.2 (10)	100	10 / 10	9.9 (10)	97	10 / 10	9.4 (10)	92	10 / 10	8.6 (10)	84	10 / 10
6	10.0 (10)	10 / 10	10.1 (10)	101	10 / 10	9.8 (10)	98	10 / 10	9.6 (10)	96	10 / 10	9.1 (10)	91	10 / 10	8.5 (10)	85	10 / 10
7	10.0 (10)	10 / 10	10.2 (10)	102	10 / 10	9.7 (10)	97	10 / 10	9.6 (10)	96	10 / 10	9.2 (10)	92	10 / 10	9.0 (10)	90	10 / 10
8	9.8 (10)	10 / 10	10.1 (10)	103	10 / 10	9.6 (10)	98	10 / 10	9.5 (10)	97	10 / 10	9.1 (10)	93	10 / 10	8.8 (10)	90	10 / 10
9	9.7 (10)	10 / 10	9.9 (10)	102	10 / 10	9.8 (10)	101	10 / 10	9.4 (10)	97	10 / 10	9.2 (10)	95	10 / 10	8.4 (10)	87	10 / 10
10	9.7 (10)	10 / 10	10.1 (10)	104	10 / 10	9.8 (10)	101	10 / 10	9.3 (10)	96	10 / 10	9.2 (10)	95	10 / 10	8.7 (10)	90	10 / 10
11	9.7 (10)	10 / 10	10.2 (10)	105	10 / 10	9.9 (10)	102	10 / 10	9.6 (10)	99	10 / 10	9.4 (10)	97	10 / 10	8.9 (10)	92	10 / 10
12	9.9 (10)	10 / 10	10.2 (10)	103	10 / 10	9.9 (10)	100	10 / 10	9.5 (10)	96	10 / 10	9.6 (10)	97	10 / 10	8.9 (10)	90	10 / 10
13	10.1 (10)	10 / 10	10.3 (10)	102	10 / 10	9.9 (10)	98	10 / 10	9.7 (10)	96	10 / 10	9.5 (10)	94	10 / 10	8.8 (10)	87	10 / 10

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

TABLE 5 WATER CONSUMPTION CHANGES OF MALE RATS 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	17.9 (10)	10 / 10	17.8 (10)	99	10 / 10	17.5 (10)	98	10 / 10	15.3 (10)	85	10 / 10	14.9 (10)	83	10 / 10	13.8 (10)	77	10 / 10
2	19.2 (10)	10 / 10	20.1 (10)	105	10 / 10	19.1 (10)	99	10 / 10	16.6 (10)	86	10 / 10	15.7 (10)	82	10 / 10	14.4 (10)	75	10 / 10
3	20.1 (10)	10 / 10	19.9 (10)	99	10 / 10	19.2 (10)	96	10 / 10	17.5 (10)	87	10 / 10	15.5 (10)	77	10 / 10	14.0 (10)	70	10 / 10
4	20.2 (10)	10 / 10	20.0 (10)	99	10 / 10	18.9 (10)	94	10 / 10	17.2 (10)	85	10 / 10	15.8 (10)	78	10 / 10	14.2 (10)	70	10 / 10
5	20.4 (10)	10 / 10	19.4 (10)	95	10 / 10	17.4 (10)	85	10 / 10	16.0 (10)	78	10 / 10	15.2 (10)	75	10 / 10	15.0 (10)	74	10 / 10
6	18.9 (10)	10 / 10	19.4 (10)	103	10 / 10	17.0 (10)	90	10 / 10	16.0 (10)	85	10 / 10	15.1 (10)	80	10 / 10	15.8 (10)	84	10 / 10
7	18.9 (10)	10 / 10	19.9 (10)	105	10 / 10	18.4 (10)	97	10 / 10	17.0 (10)	90	10 / 10	15.5 (10)	82	10 / 10	15.8 (10)	84	10 / 10
8	19.2 (10)	10 / 10	19.7 (10)	103	10 / 10	17.9 (10)	93	10 / 10	17.7 (10)	92	10 / 10	16.2 (10)	84	10 / 10	15.2 (10)	79	10 / 10
9	18.9 (10)	10 / 10	20.0 (10)	106	10 / 10	18.2 (10)	96	10 / 10	17.6 (10)	93	10 / 10	17.4 (9)	92	10 / 10	15.5 (10)	82	10 / 10
10	18.7 (10)	10 / 10	18.9 (10)	101	10 / 10	19.4 (10)	104	10 / 10	16.7 (10)	89	10 / 10	17.3 (10)	93	10 / 10	14.6 (10)	78	10 / 10
11	18.5 (10)	10 / 10	18.0 (10)	97	10 / 10	17.5 (10)	95	10 / 10	18.3 (10)	99	10 / 10	15.1 (10)	82	10 / 10	14.3 (10)	77	10 / 10
12	18.3 (10)	10 / 10	18.3 (10)	100	10 / 10	17.5 (10)	96	10 / 10	15.6 (10)	85	10 / 10	15.0 (10)	82	10 / 10	14.0 (10)	77	10 / 10
13	18.5 (10)	10 / 10	18.2 (10)	98	10 / 10	17.3 (10)	94	10 / 10	16.1 (9)	87	10 / 10	14.1 (10)	76	10 / 10	13.2 (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 RATS 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.	% of cont.	No. of Surviv.	Av. WC.	% of cont.	No. of Surviv.	Av. WC.	% of cont.	No. of Surviv.	Av. WC.	% of cont.	No. of Surviv.	Av. WC.	% of cont.	No. of Surviv.
1	15.0 (9)	10 / 10	15.0 (9)	100	10 / 10	16.2 (10)	108	10 / 10	12.2 (10)	81	10 / 10	11.7 (10)	78	10 / 10	11.3 (10)	75	10 / 10
2	18.1 (9)	10 / 10	17.4 (10)	96	10 / 10	17.2 (9)	95	10 / 10	13.0 (10)	72	10 / 10	12.0 (10)	66	10 / 10	10.5 (10)	58	10 / 10
3	16.9 (7)	10 / 10	17.4 (9)	103	10 / 10	15.4 (8)	91	10 / 10	13.2 (10)	78	10 / 10	12.7 (10)	75	10 / 10	10.2 (10)	60	10 / 10
4	18.5 (9)	10 / 10	16.1 (8)	87	10 / 10	17.6 (9)	95	10 / 10	13.4 (10)	72	10 / 10	12.0 (10)	65	10 / 10	9.6 (10)	52	10 / 10
5	16.7 (9)	10 / 10	17.1 (10)	102	10 / 10	16.7 (10)	100	10 / 10	13.3 (10)	80	10 / 10	10.8 (10)	65	10 / 10	9.3 (10)	56	10 / 10
6	20.2 (10)	10 / 10	15.7 (9)	78	10 / 10	16.1 (10)	80	10 / 10	12.7 (10)	63	10 / 10	10.7 (10)	53	10 / 10	9.7 (10)	48	10 / 10
7	19.1 (9)	10 / 10	16.4 (8)	86	10 / 10	16.4 (9)	86	10 / 10	12.1 (10)	63	10 / 10	10.6 (10)	55	10 / 10	9.6 (10)	50	10 / 10
8	19.7 (10)	10 / 10	18.8 (10)	95	10 / 10	17.7 (9)	90	10 / 10	12.6 (10)	64	10 / 10	11.2 (10)	57	10 / 10	9.7 (10)	49	10 / 10
9	17.0 (9)	10 / 10	16.6 (8)	98	10 / 10	13.9 (8)	82	10 / 10	12.1 (10)	71	10 / 10	10.6 (10)	62	10 / 10	8.9 (10)	52	10 / 10
10	16.6 (9)	10 / 10	16.5 (8)	99	10 / 10	15.7 (9)	95	10 / 10	12.2 (10)	73	10 / 10	10.5 (10)	63	10 / 10	9.4 (10)	57	10 / 10
11	17.6 (9)	10 / 10	19.3 (10)	110	10 / 10	15.0 (8)	85	10 / 10	12.7 (10)	72	10 / 10	10.9 (10)	62	10 / 10	9.8 (10)	56	10 / 10
12	18.9 (10)	10 / 10	16.9 (8)	89	10 / 10	15.9 (9)	84	10 / 10	12.7 (10)	67	10 / 10	10.7 (10)	57	10 / 10	9.4 (10)	50	10 / 10
13	15.9 (8)	10 / 10	15.2 (8)	96	10 / 10	15.4 (9)	97	10 / 10	12.6 (10)	79	10 / 10	10.7 (10)	67	10 / 10	9.6 (10)	60	10 / 10

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

TABLE 7 HEMATOLOGY OF FEMALE RATS 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
PLATELET ($10^3/\mu\text{L}$)	801 \pm 76	816 \pm 41	795 \pm 48	760 \pm 55	768 \pm 42	722 \pm 28 **
Mean \pm S.D.						
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$ Test of Dunnett						

TABLE 8 BIOCHEMISTRY OF MALE RATS 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	
TOTAL PROTEIN (g/dL)	6.6 ± 0.2	6.4 ± 0.2	6.5 ± 0.1	6.4 ± 0.1	* 6.3 ± 0.2	** 6.2 ± 0.1	**
ALBUMIN (g/dL)	3.6 ± 0.1	3.6 ± 0.1	3.6 ± 0.1	3.6 ± 0.1	3.5 ± 0.1	** 3.5 ± 0.1	**
CK (IU/L)	102 ± 8	95 ± 7	96 ± 11	90 ± 12	* 89 ± 7	** 83 ± 6	**
SODIUM (mEq/L)	142 ± 1	141 ± 1	142 ± 1	141 ± 1	141 ± 1	140 ± 1	**
CHLORIDE (mEq/L)	104 ± 1	103 ± 1	104 ± 1	103 ± 1	103 ± 1	102 ± 1	*
CALCIUM (mg/dL)	10.3 ± 0.2	10.2 ± 0.2	10.2 ± 0.2	10.2 ± 0.1	10.0 ± 0.2	** 9.9 ± 0.3	**

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

TABLE 9 BIOCHEMISTRY OF FEMALE RATS 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	
TOTAL PROTEIN (g/dL)	6.1 ± 0.2	6.1 ± 0.2	6.2 ± 0.2	6.0 ± 0.2	5.9 ± 0.1	* 5.7 ± 0.2	**
ALBUMIN (g/dL)	3.5 ± 0.1	3.5 ± 0.1	3.5 ± 0.1	3.5 ± 0.1	3.4 ± 0.1	* 3.3 ± 0.1	**
SODIUM (mEq/L)	142 ± 1	141 ± 1	141 ± 2	141 ± 1	140 ± 1	139 ± 1	**
CALCIUM (mg/dL)	9.8 ± 0.2	9.8 ± 0.2	9.8 ± 0.2	9.8 ± 0.2	9.6 ± 0.3	9.5 ± 0.3	**

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

TABLE 10 URINALYSIS OF MALE RATS 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
Ketone body	Grade						
	—	3	1	0	0	1	0
	±	7	8	7	4	3	5
	+	0	1	3	6	5	5
	2+	0	0	0	0	1	0
	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 11 URINALYSIS OF FEMALE RATS 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
pH	Grade						
	5.0	0	0	0	0	0	0
	6.0	0	0	0	0	0	3
	6.5	0	0	0	0	0	2
	7.0	0	0	0	0	1	0
	7.5	0	0	0	0	2	0
	8.0	7	6	7	6	6	5
	8.5	3	4	3	4	1	0
	Chi square test						*
Protein	—	0	0	0	0	0	0
	±	1	2	1	0	0	0
	+	8	8	8	6	5	3
	2+	1	0	1	4	5	7
	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 12 ORGAN WEIGHTS OF MALE RATS 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)	305 ± 23	312 ± 10	310 ± 14	308 ± 13	303 ± 12	297 ± 12
Kidneys (g)	1.831 ± 0.129	1.924 ± 0.078	2.141 ± 0.762	1.945 ± 0.094	1.942 ± 0.055	1.981 ± 0.086
Kidneys (%)	0.600 ± 0.017	0.618 ± 0.014	0.688 ± 0.228	0.631 ± 0.018 *	0.641 ± 0.021 **	0.667 ± 0.022 **
Mean ± S.D.						
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$ Test of Dunnett						

TABLE 13 ORGAN WEIGHTS OF FEMALE RATS 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)	158 ± 6	164 ± 10	163 ± 6	167 ± 7	169 ± 10	167 ± 7
Adrenals (g)	0.051 ± 0.003	0.050 ± 0.004	0.049 ± 0.003	0.048 ± 0.006	0.050 ± 0.004	0.049 ± 0.003
Adrenals (%)	0.032 ± 0.002	0.031 ± 0.002	0.031 ± 0.002	0.029 ± 0.003 *	0.030 ± 0.004	0.030 ± 0.002
Kidneys (g)	1.116 ± 0.045	1.126 ± 0.045	1.130 ± 0.066	1.176 ± 0.065	1.206 ± 0.064 **	1.261 ± 0.049 **
Kidneys (%)	0.705 ± 0.023	0.688 ± 0.025	0.695 ± 0.025	0.705 ± 0.025	0.715 ± 0.034	0.756 ± 0.027 **
Brain (g)	1.759 ± 0.024	1.774 ± 0.032	1.764 ± 0.043	1.743 ± 0.036	1.738 ± 0.045	1.735 ± 0.041
Brain (%)	1.113 ± 0.051	1.085 ± 0.060	1.085 ± 0.034	1.047 ± 0.040 *	1.033 ± 0.072 **	1.041 ± 0.031 **
Mean ± S.D.						
Significant difference: * : $p \leq 0.05$ ** : $p \leq 0.01$ Test of Dunnett						