

TABLE VI. ORGANIC DERIVATIVES OF ALCOHOLS
a) Liquids (Listed in order of increasing atmospheric b.p.)*

No.	Name	Boiling point, °C	Melting point, °C	n _D ²⁰	D ₄ ²⁰	Phenyl-urethane	1-Naph-thyl-urethane	4-Nitro-benzoate	3,5-Dinitro-benzoate	Hydrogen 3-nitro-phthalate	Hydro-gen phthalate	Miscellaneous
1	Methanol (Methyl alcohol)	64.65	f.p.: -97	1.3306 ¹⁵	0.7915	47, al.	124, lgr.	96, dil. al.	108 (cor.), al.	153 (cor.)	82.5 (cor.)	Pseudosaccharin ether, 182 (cor.)
2	Ethanol (Ethyl alcohol)	78.32	f.p.: -117.3	1.3610	0.7894	52	79, lgr.	57, al.	93, al.	158 (cor.), w.	48	Pseudosaccharin ether, 219 (cor.)
3	2-Propanol (Isopropyl alcohol)	82.4	-89.5	1.37927	0.78507	75-6, lt. pet.	106	110.5, lt. pet.; 108	123, pet. eth.	154 (cor.), w.	.....	Pseudosaccharin ether, 137 (cor.)
4	d,l-3-Buten-2-ol (Methyl vinyl carbinol)	94-6	.....	.....	.....	.....	.....	.....	.....	.....	.....	Allophanate, 152; Constant boil. mixt. with 21.76% w., b.p.: 80
5	2-Propen-1-ol (Allyl alcohol)	97.1	.....	1.41345	0.8540	70	108	28	49-50	124	.....	.....
6	1-Propanol (<i>n</i> -Propyl alcohol)	97.1	.....	1.38499	0.80359	57, pet.	80; 76	35, pet.	74, pet. eth.	145.5 (cor.), w.	54.1-4 (cor.), pet. eth.-bz. (9:1)	Pseudosaccharin ether, 124.5 (cor.)
7	2-Butanol (d, <i>l</i> -sec-Butyl alcohol; Ethyl methyl carbinol)	99.5	.....	1.39495 ²⁵	0.80692	64.5, pet.	97	25-6, dil. al.	76	131 (cor.)	59-60	Pseudosaccharin ether, 65.5 (cor.)
8	2-Methyl-2-butanol (<i>tert</i> -Amyl alcohol)	102.3	-8.55	1.4052	0.80889	42, pet. eth.	72	85	116; 117-8	.....	.....	.....
9	2-Fluoroethanol	105	.....	1.3633 ²⁵	.....	.....	128	.....	.....	.....	.....	.....
10	2-Methyl-1-propanol (Iso-butyl alcohol)	108.1	.....	1.3939 ²⁵	0.80196	86, lgr.	104	69	87	180.5 (cor.)	65, pet. eth.	.....
11	3-Buten-1-ol	122.5-3.5 ²⁵	.....	.....	.....	23.4-4.5	.....	.....	.....	127	39; d: 34; l: 34	d: [α] _D ²⁵ : +5.34, in al.
12	d, <i>l</i> -3-Methyl-2-butanol (<i>sec</i> -Isoamyl alcohol; d, <i>l</i> -Isopropyl methyl carbinol)	114; d: 110-2	.....	1.3973	0.8180	68	109	.....	.....	.....	.....	.....
13	3-Pentanol (<i>sym</i> -sec-Amyl alcohol; Diethyl carbinol)	116.1	.....	1.4103	0.82037	48-9	95, lgr.	17	101; 99; 97	121	.....	.....
14	1-Butanol (<i>n</i> -Butyl alcohol)	117.6; 116	-90.2	1.3974 ²⁵	0.80960	61	71	70; 64; 35-6	64; 62.5 (cor.)	147 (cor.)	73.1-5 (cor.)	Pseudosaccharin ether, 96 (cor.)
15	d, <i>l</i> -2-Pentanol (<i>sec</i> -Amyl alcohol)	119.85	.....	1.4060	0.80919	.....	74.5; 76; d: 88-91	17	62	102-3	60-1; d: 34; l: 34	Pseudosaccharin ether, 38 (cor.)
16	3,3-Dimethyl-2-butanol (<i>d</i> , <i>l</i> -Pinacolyl alcohol; <i>tert</i> -Butyl methyl carbinol)	120.4	5.3	1.4148	0.8185	77-8, pet. eth.	.....	.....	107, yel.-wh., pet. eth.	.....	85-6, lt. pet.	.....
17	2,3-Dimethyl-2-butanol (Dimethyl isopropyl carbinol)	120.5	-14	1.4140	0.8208	65-6, pet. eth.	101	111, yel., bz.-pet. eth.	Allophanate, 152 (cor.)
18	3-Methyl-3-pentanol	123	-22	1.4166 ²⁵	0.82334 ²⁵	43.5	83.5	96.5, yel., pet. eth.; 62.5

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miscellaneous	No.	Name	Boiling point, °C	Melting point, °C	n _D ²⁰	D ₄ ²⁰	Phenylurethane	1-Naphthylurethane	4-Nitrobenzoate	3,5-Dinitrobenzoate	Hydrogen 3-nitrophthalate	Hydrogen phthalate	Miscellaneous
dosaccharin er, 182 (cor.)	19	2-Methyl-2-pentanol (Dimethyl <i>n</i> -propyl carbinol).....	123; 121 - 103; - 108	1.4113	0.81341	.....	.....	.....	72	.....	.....	.....	Benzoate, 182-3, al.; Allophanate, 128
dosaccharin er, 219 (cor.)	20	2-Methoxyethanol (Methyl cellosolve; Ethylene glycol monomethyl ether).....	124.5	.....	1.40238	0.9647	.....	112.5- 3.0	50.5, dil. al.	.....	129, dil. al.	.....	Diphenyl urethane, 51
idosaccharin er, 137 (cor.)	21	2-Methyl-3-pentanol (Ethyl isopropyl carbinol).....	127.5	.....	1.4168	0.82487	50	.....	.....	85, yel., pet. eth.	150.7	70; 69- 71, racemic	.....
phanate, 152; instant boil. ct. with 76% w. b.p.:	22	1-Chloro-2-propanol	127	.....	.....	.....	.....	.....	77	.....	.....	.....	.....
.....	23	2-Methyl-1-butanol (Active amyl alcohol; <i>d</i> -sec-Butyl carbinol)....	128.9	.....	1.4107	0.8193	31	82, lgr.	.....	70	157-8, w.	.....	[α] _D ²⁰ : -5.756
udosaccharin er, 124.5 cor.)	24	2-Chloroethanol (Ethylene chlorohydrin).....	131	.....	.....	.....	51	101	.....	.....	98	.....	.....
.....	25	<i>d,l</i> -4-Methyl-2-pentanol (Isobutyl methyl carbinol).....	132	.....	1.4011	0.80713	143, et. ac.	88	26	65, yel., pet. eth.	.....	.....	.....
udosaccharin her, 65.5 (cor.)	26	3-Methyl-1-butanol (<i>prim</i> -Isoamyl alcohol).....	132	- 117	1.40851 ^{1a}	0.80918	56-7, lgr.	68	21	61	166.3 (cor.), 30% al.; 165-6, w.	.....	Pseudosaccharin ether, 64 (cor.)
.....	27	<i>d,l</i> -2-Chloro-1-propanol	133.4	.....	1.436	1.103	.....	.....	.....	76	.....	.....	Alkali + heat → propylene oxide, b.p. 35
eudosaccharin ther, 100 (cor.)	28	3-Methyl-2-pentanol (<i>sec</i> -Butyl methyl carbinol)	134.2 ^{7a}	.....	.....	.....	72	.....	43.5, yel., pet. eth.;	41	.....	.....	.....
[α] _D ²⁰ : +5.34, in l.	29	2-Ethoxyethanol (Ethylene glycol monoethyl ether).....	135	.....	1.40797	0.9297	.....	67.3-.5	.....	75, al.	118-8.6 (anh.); 94.2-4 (mono- hyd.); w.-al.	.....	Diphenyl urethane, 43
eudosaccharin ether, 96 (cor.)	30	3-Hexanol (Ethyl <i>n</i> -propyl carbinol).....	136	.....	1.4159	0.81851	.....	.....	97, yel.- wh., pet. eth.	.....	76-7, pet. eth.	.....	.....
eudosaccharin ether, 38 (cor.)	31	2,2-Dimethyl-1-butanol (<i>tert</i> -Amyl carbinol) ...	136.7	.....	1.4208	0.82834	65-6	80-1, lgr.	.....	51, yel., pet. eth.	.....	.....	Pseudosaccharin ether, 68-9, lt. pet.
.....	32	1-Pentanol (<i>n</i> -Amyl alcohol).....	138	- 78.5 (cor.)	1.40994	0.81479	46	68	11	46.4	136 (cor.)	75.5	Pseudosaccharin ether, 62 (cor.)
.....	33	<i>d,l</i> -2-Hexanol (<i>n</i> -Butyl methyl carbinol).....	138-9 ^{7a}	.....	1.4126 ²⁵	0.80977 ²⁵	.....	60.5	40	38.5	.....	d: 29	3,5-Dinitrophenyl urethane, 40
allophanate, 152 (cor.)	34	2,4-Dimethyl-3-pentanol	140	.....	1.42259	0.8288	95, eth.- pet. eth.;	95; 99	155	.....	150-1	.....	Camphor-like odor
.....	35	Cyclopentanol	140.85	.....	1.4530	0.94688	96-9	132.5, al.	118	.....	.....	.....	.....
.....	36	2-Isopropoxyethanol (Ethylene glycol mono-isopropyl ether)	141.5 ^{7a}	1.40954	0.9030	Triphenylmethyl ether, 71.0-.5, me. al.

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No.	Name	Boiling point, °C	Melting point, °C	n_D^{20}	D_4^{20}	Phenylurethane	1-Naphthylurethane	4-Nitrobenzoate	3,5-Dinitrobenzoate	Hydrogen 3-nitrophthalate	Hydrogen phthalate	Miscellaneous
37	3-Ethyl-3-pentanol (Triethyl carbinol).....	142	.....	1.4305	0.83889	.....	.....	.....	.....	.....	.....	Camphor-like odor; Allophanate, 152 (cor.)
38	2,3-Dimethyl-1-butanol	145	.....	1.4195	0.8297 ^{20.5}	28-9	.....	.....	51.5, pa., yel., pet. eth.	.....	.....	.....
39	3-Hydroxy-2-butanone (<i>d,l</i> -Acetoin; Acetyl methyl carbinol).....	145	-72	1.4178	0.9861 ²⁰	.....	.....	.....	.....	.....	.....	Semicarbazone, 185, al.; 202; 2,4-Dinitrophenylhydrazone, 318, or., PhNO ₂ -tol.
40	1-Hydroxy-2-propanone (Acetol; Acetyl carbinol)	146	-17	1.4295	1.0824 ²⁰	.....	.....	.....	.....	.....	.....	Semicarbazone, 196, al.; 2,4-Dinitrophenylhydrazone, 128.5 (cor.), or., al.
41	2-Methyl-1-pentanol (2-Methyl- <i>n</i> -amyl alcohol).....	148.0	.....	1.4190	0.8208	.....	75-6	.....	50.5, yel., pet. eth.	145; 141, bz.	.....	.....
42	2-Ethylbutanol	148.9	.....	1.4224	0.83345	.....	.....	.....	51.5, pet. eth.	.....	.....	.....
43	2-Bromoethanol (Ethylene bromohydrin).....	149d.	.....	.....	.....	.....	86	.....	.....	.....	.....	.....
44	2- <i>n</i> -Propoxyethanol (Ethylene glycol mono- <i>n</i> -propyl ether).....	150.0 ⁷³⁶	.....	1.41328	0.9112	.....	.....	.....	.....	.....	.....	.....
45	Trichloroethanol	151	19	.....	.....	87	120	71, al.	142.3	.....	.....	Urethane, 64-5
46	3-Methyl-1-pentanol	151-2; 153.7-4.1	.....	1.4188	0.8242	.....	58; <i>d,l</i> : 40-1; <i>d</i> : 38-40; <i>t</i> : 37-8	.....	38, yel., pet. eth.	.....	.....	.....
47	4-Methyl-1-pentanol (Isoamyl carbinol; Isohexyl alcohol)	152-3	.....	1.4153	0.8131	48 (cor.)	.....	.....	72, pet. eth.; 69.8 (cor.)	138.5-40, bz.-pet. eth.	.....	.....
48	<i>d,l</i> -4-Heptanol (Di- <i>n</i> -propyl carbinol).....	156	-41.5	1.4205	0.8183	.....	78-80	35	64	.....	60	.....
49	1-Hexanol (<i>n</i> -Hexyl alcohol).....	157.5	-51.6; -46.1	1.41778	0.81893	42	59; 62	5	58.4 (cor.); 60-1	124 (cor.); 123	25	Pseudosaccharin ether, 60 (cor.)
50	<i>d,l</i> -2-Heptanol (<i>n</i> -Amyl methyl carbinol; <i>sec</i> -Heptyl alcohol)	158.7	.....	1.4210	0.8167	.....	54	.....	49.4	.....	57.5; <i>d,l</i> : 76.5	.....
51	2-Isobutoxyethanol (Ethylene glycol mono-isobutyl ether)	159.3 ⁷⁴⁶	.....	1.41428	0.8900	.....	.....	.....	.....	.....	.....	.....
52	2- <i>sec</i> -Butoxyethanol (Ethylene glycol mono- <i>sec</i> -butyl ether)	159.3 ⁷⁴⁶	.....	1.41606	0.8966	.....	.....	.....	.....	.....	.....	.....
53	2,4-Dimethyl-1-pentanol	159.8	1.427	0.793	154-5, bz.-pet. eth.	<i>p</i> -Xenylurethane, 74-5, pet.

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54	3-Chloro-1-propanol (3-Chloropropyl alcohol)	161.2	38	76	77	p-Xenylurethane, 88.0-5, pet.
55	2-Methyl-1-hexanol	164-5	.....	1.4250	0.8270	.....	.....	.....	.....	131-2, wh., pet.	.....	.....
56	2-Ethyl-1-pentanol (2-Ethyl-n-amyl alcohol)	164-6	.....	.....	.....	.....	.....	.....	.....	127-8, bz.-pet.	.....	p-Xenylurethane, 77-77.5, pet.
57	d,l-4-Methyl-1-hexanol	165; 173	.....	1.4219	0.8239	.....	50	.....	.....	149	.....	Odor of Amyl alcohol
58	d,l-cis-2-Methylcyclohexanol (cis-Hexahydro-o-cresol)	165.3	-9.3	1.4640	0.9340	90-1; 93-4	.....	51-2; 55-6	98-9	.....	103-4; 104-5	.....
59	4-Hydroxy-4-methyl-2-pentanone (Diacetone alcohol)	166	.....	.....	0.9306 ²⁵	.....	.....	48	55	.....	.....	Oxime, 57.5-8.5, lgr.-eth.
60	d,l-trans-2-Methylcyclohexanol (trans-Hexahydro-o-cresol)	167.4	21	1.4611	0.9235	105; mixt. cis + trans: 90-105	.....	65; mixt. cis + trans: 35-6	114-5; mixt. cis + trans: 85-90	.....	124-5; mixt. cis + trans: 95-6	.....
61	2-n-Butoxyethanol (Ethylene glycol mono-n-butyl ether)	170-6 ⁷⁴³	.....	1.4177 ²⁶	0.9188	62	.....	.....	.....	120.0-6	.....	4-Nitrophenylurethane, 58.7-9.1, CCl ₄
62	2-Aminoethyl alcohol (Ethanolamine)	171	.....	.....	.....	.....	.....	.....	.....	.....	.....	N-1-Naphthylurea, 186 (cor.); Picrate, 160
63	2,6-Dimethyl-4-heptanol (Di-isobutyl-carbinol)	171.4-3.4	.....	1.4242	0.8129 ²⁹	61-2, lgr.-al.	.....	.....	.....	.....	118	p-Xenylurethane, 118; Allophanate, 156
64	Furfuryl alcohol (2-Furyl carbinol)	172; 170	.....	1.4863	1.1351 ²⁰	45	129-30, lgr.; 133	76	80-1	.....	85	Urethane, 50; Pseudosaccharin ether, 55
65	d,l-cis-3-Methylcyclohexanol (cis-Hexahydro-m-cresol)	173-4	.....	1.4572	0.919	87-8	128-9	65	91-2	.....	82-3	.....
66	d,l-cis-4-Methylcyclohexanol (cis-Hexahydro-p-cresol)	173-4 ⁷⁵⁰	.....	1.4549	0.914	118-9	.....	94	134	.....	72-3	.....
67	d,l-trans-4-Methylcyclohexanol (trans-Hexahydro-p-cresol)	173-4.5 ⁷⁴⁵	.....	1.4534	0.913	124-5; mixt. cis + trans: 112-5	.....	67	139-40; mixt. cis + trans: 125-30	.....	119-25, ac. a.	.....
68	d,l-trans-3-Methylcyclohexanol (trans-Hexahydro-m-cresol)	174-5	.....	1.4550	0.9145	93-4; mixt. cis + trans: 75-85	122	58	97-8; mixt. cis + trans: 80-5	.....	93-4	.....
69	2,6-Dimethylcyclohexanol	174-5 ⁷⁴⁸	.....	1.4619	0.9115; 0.9235	158	.....	.....	.....	.....	.....	.....
70	cis-2,5-Dimethylcyclohexanol	175	.....	1.4522 ¹⁷	0.9096 ¹⁷	.....	.....	.....	.....	.....	.....	Allophanate, 157-8
71	trans-2,4-Dimethylcyclohexanol	175	1.4560	0.900	96	Acetate, b.p.: 198 ⁷⁴⁵
72	1,3-Dichloro-2-propanol	176	73	115

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73	3-Bromo-1-propanol (Triethylene bromohydrin)	176d.	73
74	cis-2,4-Dimethylcyclohexanol	176	1.4582	0.907	Pseudosaccharin ether, 55 (cor.)
75	1-Heptanol (<i>n</i> -Heptyl alcohol)	176.8	-34.6; -33.8	1.4245	0.82242	60; 65	62	10	46; 47 (cor.)	127	16.5-17.5	Allophanate, 125
76	trans-2,5-Dimethylcyclohexanol	177	.....	1.4545 ¹⁷	0.9079 ¹⁷	.....	.....	.....	.....	.....	.....	.....
77	2,2-Dimethylcyclohexanol	177	8	1.4648	0.9225	85	.....	.....	.....	.....	.....	Diphenylurethane, 81, me. al.
78	Tetrahydrofurfuryl alcohol	177-8 ⁷⁴³	.....	1.45167	1.0544	61, pet. eth. bis:	46-8	83-4	.....	.....	.....	.....
79	2-Methyl-1,2-propanediol (Isobutylene glycol)	178	.....	1.4358 ¹⁷	0.999 ¹⁴	140.5	.....	.....	.....	55; d.l.: 75	.....	.....
80	d,l-2-Octanol	179	.....	1.4265	0.8205	oil	63-4; 62.5	28	32	.....	.....	Urethane, 90-1
81	2,2-Dibromoethanol	179-81	.....	1.454 ^{16,2}	0.8876 ^{16,8}	.....	.....	.....	.....	.....	.....	.....
82	1,3,5-Trimethylcyclohexanol	181	.....	.....	.....	.....	.....	.....	.....	.....	.....	Dibenzoate: d,l: 53-4; meso: 75.5-6.2
83	2,3-Butanediol (2,3-Butylene glycol)	meso: d,l:	181.7 ⁷⁴² ; 34.4; d,l: 7.6	1.43637	1.0433	bis: 201	.....	.....	.....	.....	.....	Acetate, b.p.: 199-201 ⁷⁴⁰
84	Cyclohexyl carbinol (Hexahydrobenzyl alcohol)	182	.....	1.4649	0.9280	.....	.....	.....	.....	.....	.....	2-Naphthylurethane, 99
85	2,3-Dichloropropanol	182	.....	.....	.....	73	93	37-8	.....	133	.....	Pseudosaccharin ether, 34 (cor.)
86	4-Methyl-1-heptanol	182.7	.....	.....	.....	.....	.....	.....	.....	108	.....	p-Xenylurethane, 80, pet.; Pseudosaccharin ether, 53.5 (cor.)
87	2-Ethyl-1-hexanol	184.6	.....	1.4328	0.8328	33-4	60-1	.....	.....	.....	.....	Acetate, b.p.: 194-5 ⁷⁵⁰ ; o-Nitrobenzoate, 62
88	3,3-Dimethylcyclohexanol	185 ⁷⁵⁴	11-2	1.4606 ¹⁵	0.9128 ¹⁴	.....	.....	83	.....	.....	.....	Acetate, b.p.: 201-2
89	cis-3,5-Dimethylcyclohexanol	187	.....	1.454 ²¹	0.9109 ²¹	.....	.....	.....	.....	.....	.....	Acetate, d,l; b.p.: 196; d, [α] _D ¹⁵ : +4.55; l, [α] _D ¹⁵ : -7.74
90	trans-3,5-Dimethylcyclohexanol	d,l: 187	.....	1.4579	d: 0.9146; l: 0.9166	.....	.....	.....	.....	.....	.....	Monostearate, 59.5; Distearate, 72.3
91	d,l-1,2-Propanediol (α-Propylene glycol)	187.4	.....	1.43162 ²⁵	1.0354 ²³	bis: 153; 143-4	.....	.....	.....	.....	.....	.....
92	3,4-Dimethylcyclohexanol	189	.....	1.458 ¹⁶	0.9073 ¹⁶	119	.....	.....	.....	81-3.5, eth.-lgr.	.....	.....
93	2,4,5-Trimethylcyclohexanol	cis: trans: 191-3; 196	.....	.....	.....	83.5, al.; trans: 95, al.	.....	.....	.....	.....	.....	Acetate, b.p.: 206-7
94	1,3,3-Trimethylcyclohexen-6-ol	193 (cor.)	0.9310 ¹³
95	2,3,6-Trimethylcyclohexanol	193-5 ⁷⁴⁷	0.9119 ¹⁷

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96	2-(2-Methoxyethoxy)-ethanol (Diethylene glycol monomethyl ether).	194	1.4244	1.035 ²⁰	92	91.4-2.2 (anh.); 87-90 (mono-hyd.), w.-al.	4-Nitrophenylurethane, 73.5; 76
97	5-Nonanol	194 ⁷⁴³	.....	1.4289 ¹⁸	.....	.....	.....	.....	.....	45	22	Allophanate, 158
98	1-Octanol (<i>n</i> -Octyl alcohol).	195	-16; -16.7	1.4274 ²⁵	0.8249	74;72	67	12	61-2	128 (cor.)	.....	Pseudosaccharin ether, 46 (cor.)
99	2-Methyl-2,4-pentanediol	196; 198	.....	1.42976 ^{16,7}	0.9240 ¹⁷	.....	.....	.....	.....	.....	.....	Odor of pinacol; Heating with 2% HBr → diene, b.p.: 75.5-76.0
100	2-(2-Ethoxyethoxy)-ethanol (Diethylene glycol monoethyl ether).	196 ⁷⁶³	.....	1.4298	1.023 ²⁰	.....	.....	oil	oil	oil	.....	4-Nitrophenylurethane, 65.8-6.3
101	Glycol (1,2-Ethanediol)	197.85	-12.6	1.43192	1.11361	di: 157	di: 176	140; 141	di: 169	.....	.....	bis-4-Nitrophenylurethane, 135.5
102	d,l-2-Nonanol	198.2	.....	1.4290 ²⁵	0.81910 ²⁵	.....	55.5, lt. pet.	.....	42.8 (cor.)	42-4, <i>d,J:</i> 58-9	.....	.....
103	<i>l</i> -Linalool (<i>l</i> -Linalyl alcohol)	199	.....	1.46238	0.8622	65-6	53	70	.....	.....	.....	[α] _D : -3 to -17
104	Benzyl alcohol	205.5	-15.3	1.53955	1.04540	77; 75.5- 76, pet. eth.	134	85	113	176	106; 104	Pseudosaccharin ether, 130 (cor.)
105	d,l-1,3-Butanediol (d,l-1,3-Butylene glycol).	207.5; 204	.....	1.44252 ^{18,5}	1.0053	122-3; <i>d</i> : 115-6	184	.....	.....	.....	.....	Diphenylurethane, <i>l</i> : 127-8
106	d,l-2-Decanol (Methyl <i>n</i> -octyl carbinol).	211	.....	<i>d</i> : 1.4344	<i>d</i> : 0.8250	.....	69, lt. pet.	.....	.....	48-9; <i>d</i> : 38-9	.....	.....
107	1-Nonanol (<i>n</i> -Nonyl alcohol).	213.5	.....	1.43105	0.8271	60; 69; 62-4	65.5	60; 66	52.2	125 (cor.)	42.5	Pseudosaccharin ether, 49 (cor.)
108	1,3-Propanediol (Trimethylene glycol).	214.7; 210-2	-30	1.43983	1.0538	di: 137	di: 164	di: 119	di: 178	.....	.....	Dibenzoate, 57; 59
109	3-Methylbenzyl alcohol (3-Tolyl carbinol).	217	.....	.....	0.9157 ¹⁷	.....	116	.....	.....	.....	.....	.....
110	α,4-Dimethylbenzyl alcohol (α-Methyl-4-tolyl carbinol).	219	.....	.....	0.96684 ^{15,5}	96, pet. eth.	.....	.....	.....	.....	.....	.....
111	1-Phenyl- <i>n</i> -propyl alcohol (d,l-Phenylethyl carbinol).	219	.....	1.5257	1.0056 ²⁰	.....	102	59-60; 56.5- 7.8	.....	.....	.....	.....
112	2,3-Dibromo-1-propanol	219d.	.....	.....	.....	84	.....	59-60	.....	.....	.....	3,5-Dinitrophenylurethane, 71
113	2-Phenethyl alcohol (2-Phenylethanol).	219.8	-25.8	1.5240	1.0235 ²⁵	78; 79- 80, al.	119	61.5-2 (cor.); 62-3, al.	108	123	188-9	.....
114	d,l-α-Terpineol	221	35; <i>d,J</i> : 37-8	1.4834	0.9337	112-3, me. al.; <i>d,J</i> : 110	152; 147	139, me. al.	78-9, lgr.	117-8, ac. a.	Commercial liquid, lilac-like odor

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