

TABLE VII. ORGANIC DERIVATIVES OF PHENOLS

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	α -Naphthyl-urethane	p -Nitrobenzoate	3,5-Dinitrobenzoate	Bromo derivative	p -Toluene sulfonate	Miscellaneous
1	2-Chlorophenol	175.6	7	1.5473 ⁴⁰	1.2410 ¹⁵	121	120	115	143	mono 48.9, di 76	74	Aryloxyacetic acid, 145, 2,4-Dinitrophenyl ether, 99, 4,6-Bis(dimethylamino-methyl) deriv., 62, 3, p -Phenylazobenzoate, 120-1
2	2-Bromophenol	195	5		1.4924		129			95	78	p -Phenylazobenzoate, 126-7
3	2-Chloro-4-methylphenol (2-Chloro- p -cresol)	195.6		1.5200 ²	1.1785 ²⁷							Benzoate, 71, 2, Aryloxyacetic acid, 108, Acetate, b p 238
4	2-Hydroxybenzaldehyde (Salicylaldehyde)	197 (cor)	1.6	1.574	1.1690 ³⁰	133		128			63, 4	Aryloxyacetic acid, 132, Acetate, 39
5	3-Methylphenol (m -Cresol)	203	12	1.540	1.03401	125, 121, 2, al -lgr	127.8	90	165.4 (cor), al	tri 84	51	Aryloxyacetic acid, 103, 2,4-Dinitrophenyl ether, 74, Benzoate, 55
6	2-Ethylphenol	207			1.0371 ⁰	143.4, 141		56.7	108			Aryloxyacetic acid, 141, Benzoate, 38-9, al
7	2-Isopropylphenol	212	16	1.5315	1.012							Aryloxyacetic acid, 132, 3, Methylurethane, 96, 7, 4,6-Dinitro deriv., 53
8	2-Bromo-4-ethylphenol	213.4									121	
9	3-Ethylphenol	217	-4		1.0250 ⁹	137, 138.8		68				Aryloxyacetic acid, 77, Benzoate, 52, 95% al
10	2-Allylphenol	220	-6	1.5181	1.0255 ¹⁵	116, 106.0, 6.5				6-mono 50		Aryloxyacetic acid, 148.5-50
11	2-Chloro-4,6-dimethylphenol	221.3						94-5				
12	Methyl salicylate (Methyl 2-hydroxybenzoate)	224	-8	1.5369	1.184	117, bz		128				Acetate, 52, Benzoate, 92, al
13	2-Propylphenol	224.6-6.6, 220.0-0.5		1.5280	1.000 ¹⁵	111, formic a			96			Aryloxyacetic acid, 99-100
14	2- sec -Butylphenol	227-8, 116 ²¹	12-3	1.5288	0.9876	86, lgr						Aryloxyacetic acid, 109.5-110
15	4-Allylphenol	230-1 ⁷⁵⁰	16	1.5441 ¹⁸	1.033 ¹⁸				103.0-3.5			Urethane, 122, 3, Acetate, b p 238-9
16	Ethyl salicylate (Ethyl 2-hydroxybenzoate)	234	1.3	1.5226	1.131	98, 100		107-8, yel, bz				Benzoate, 79-80, 87, al, 3,5-Dinitro deriv., 92-3
17	2- n -Butylphenol	234-7, 113, 5 ¹⁴		1.5180 ^{25, 5}	0.975				97			Aryloxyacetic acid, 104-5, Acetate, 105.5
18	4-Isobutylphenol	236, 235-9		1.5319 ²⁵	0.9796 ²⁰							Aryloxyacetic acid, 124-5
19	Carvacrol (5-Isopropyl-2-methylphenol)	237.8	1	1.524	0.9760	134.5, 138	116, lgr	51	83, 76-7	46		Aryloxyacetic acid, 151, p -Xenylurethane, 116, al
20	Isopropyl salicylate (Isopropyl 2-hydroxybenzoate)	240-2		1.50650	1.0729							3,5-Dinitro deriv., 101.2, al

*Derivative data given in order m p, crystal color, solvent from which crystallized

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No	Name	Boiling point, °C	Melting point, °C	n_D^{20}	D_4^{20}	Phenyl-urethane	α -Naphthyl-urethane	<i>p</i> -Nitrobenzoate	3,5-Dinitrobenzoate	Bromo derivative	<i>p</i> -Toluene sulfonate	Miscellaneous
21	3-Methoxyphenol (Resorcinol monomethyl ether)	243-244	-17.5				128.9			<i>tri</i> 104		Aryloxyacetic acid, 118, 111-3, w, 2,4-Dinitrophenyl ether, 87-8
22	2-Allyl-6-methoxyphenol	250-1115 ⁹		1.5393				96.7				
23	4-Allyl-2-methoxyphenol (Eugenol)	254.8, 127 ¹⁵	-9.1, 16.9	1.5410	1.0664	95.5	122, lgr	81	130.8 (cor), al	<i>tetra</i> 118	85	Acetate, 29, al, Benzoate, 70, al, Aryloxyacetic acid, 81, 100, 2,4-Dinitrophenyl ether, 115, N,N-Diphenylurethane, 108
24	Isobutyl salicylate (Isobutyl 2-hydroxybenzoate)	260.2		1.50872	1.0639							3,5-Dinitro deriv, 72.3, al
25	<i>d,l</i>-1,2,3,4-Tetrahydro-2-naphthol	264 ⁷¹⁶		1.5523 ¹⁷	1.0715 ¹⁷	99						Acetate, b p 169 ³⁴ , Benzoate, b p 254.5 ⁴⁰
26	2-Methoxy-4-propenylphenol (Isoeugenol)	267.5		<i>cis</i> 1.5700, <i>trans</i> 1.5782	<i>cis</i> 1.0851, <i>trans</i> 1.0852	<i>cis</i> 118, <i>trans</i> 152	149.50, lgr	109	154.8 (cor), <i>n</i> -BuOH			Acetate, 79-80, bz-lgr, Benzoate, <i>cis</i> , 68, <i>trans</i> , 103.4, al, Aryloxyacetic acid, 116 (94), 2,4-Dinitrophenyl ether, 128
27	<i>n</i>-Butyl salicylate (<i>n</i> -Butyl 2-hydroxybenzoate)	270-2, 259-60	-5.9	1.51148	1.0728							3,5-Dinitro deriv, 60.1, al, <i>p</i> -Nitrobenzyl ether, 92
28	Isoamyl salicylate (Isopentyl salicylate)	276.8		1.50799	1.0535							3,5-Dinitro deriv, 61-2, al
29	3-Acetoxyphenol (Resorcinol monoacetate)	283		1.5328								Saponification → resorcinol, 110 + ac a, Diacetate, b p 130.1 ⁷

*Derivative data given in order m p, crystal color, solvent from which crystallized