

ALCOHOLS

Compound	Bp / °C (Mp / °C)	Derivatives Mp/ °C		
		3,5-Dinitro- benzoate	Phenylurethane	α -Naphthyl- urethane
4-Methylbenzyl alcohol	--- (60)	118	79	---
Diphenylmethanol	--- (69)	141	136	---
Ethyl p-hydroxybenzoate	--- (116)	*	*	*
Methyl p-hydroxybenzoate	--- (130)	*	*	*
Ethanol	78	93	52	79
2-Propanol	83	122	88	106
1-Propanol	97	74	51	80
2-Butanol	99	75	65	97
2-Methyl-1-propanol	108	86	86	104
3-Methyl-2-butanol	113	76	68	110
1-Butanol	116	64	63	71
3-Pentanol	116	101	48	95
2-Pentanol	119	61	--- (oil)	76
2-Chloroethanol	129	92	51	101
2-Methyl-1-butanol	129	70	31	82
3-Methyl-1-butanol	132	61	55	68
4-Methyl-2-pentanol	132	65	143	88
3-Methyl-2-pentanol	134	43	---	72
1-Pentanol	138	46	46	68
2-Methyl-1-pentanol	148	51	---	75
2-Ethyl-1-butanol	149	52	---	---
1-Hexanol	156	58	42	59
Cyclohexanol	161	112	82	129
2-Octanol	179	32	114	63
1-Phenylethanol	203	95	94	106
Benzyl alcohol	205	112	78	134
2-Phenylethanol	219	108	79	119
Ethyl o-hydroxybenzoate	234	*	*	*
Cinnamyl alcohol	257 (33)	121	90	114
4-Methoxybenzyl alcohol	260 (25)	---	92	---

* These compounds are also esters, see that table for derivatives.

--- No data available.

ESTERS

Compound	Bp /°C (Mp / °C)	Derivative Mp/ °C
		Carboxylic Acid
Methyl p-methylbenzoate	223 (30)	177
Methyl cinnamate	261 (35)	133
Methyl 4-methoxybenzoate	245 (49)	184
Ethyl p-nitrobenzoate	--- (57)	241
Methyl p-nitrobenzoate	--- (95)	241
Ethyl p-hydroxybenzoate	--- (116)	213
Methyl p-hydroxybenzoate	--- (130)	213
Methyl benzoate	198	121
Methyl o-toluate	213	102
Ethyl benzoate	213	121
Diethyl succinate	216	190
Methyl phenylacetate	218	76
Methyl salicylate	224	157
Methyl o-chlorobenzoate	230	140
Ethyl salicylate	234	157
Ethyl p-toluate	241	177
Isopropyl salicylate	255	157
Ethyl o-chlorobenzoate	255	140
Dimethyl suberate	268	141
Ethyl 4-methoxybenzoate	270	184
Ethyl cinnamate	271	133
Diethyl phthalate	296	230

--- No data available.

ACIDS

Compound	Mp / °C	Derivatives Mp/ °C	
		Amide	Anilide
2-Phenylbutyric	42	86	---
3-Phenylpropionic	48	82	92
5-Phenylpentanoic	60	109	90
Phenylethanoic	76	154	117
p-Methoxyphenylethanoic	85	189	---
o-Methoxybenzoic	100	128	131
o-Methylbenzoic	102	142	125
m-Methylbenzoic	110	97	125
o-Chlorobenzoic	140	139	114
Diphenylethanoic	148	168	180
m-Chlorobenzoic	156	134	122
p-Chlorophenoxyacetic	156	133	125
2,4-Dichlorobenzoic	158	---	---
3,4,5-Trimethylbenzoic	170	176	---
p-Methylbenzoic	177	158	140
3,4-Dimethoxybenzoic	182	164	154
p-Methoxybenzoic	183	167	170
p-Ethoxybenzoic	198	202	169
3,5-Dinitrobenzoic	202	183	234
3,5-Dichlorobenzoic	208	133	---

--- No data available.

PHENOLS

Compound	Bp /°C (Mp / °C)	Derivatives Mp/ °C			
		Benzoate	3,5-Dinitro- benzoate	Phenyl- urethane	α-Naphthyl- urethane
4-Ethylphenol	---(47)	60	132	120	128
2,6-Dimethylphenol	---(49)	---	159	133	177
2-Isopropyl-5-methylphenol	---(51)	33	103	---	160
4-Methoxyphenol	---(56)	87	---	134	---
3,4-Dimethylphenol	---(62)	59	182	120	141
2,5-Dimethylphenol	---(75)	61	137	172	172
4-Chloro-3,5-dimethylphenol	---(115)		(Acetate 48)		
Ethyl p-hydroxybenzoate	--- (116)	*	*	*	*
Methyl p-hydroxybenzoate	--- (130)	*	*	*	*
o-Chlorophenol	176(7)	---	143	~123	120
o-Methylphenol	190(31)	---	138	145	142
m-Methylphenol	202(3)	55	165	~123	128
p- Methylphenol	202(36)	70	189	113	146
2-Methoxyphenol	205(30)	58	141	136	118
2,4-Dichlorophenol	209(45)	97	142	---	---
2-Isopropylphenol	212(16)		(Aryloxyacetic acid 133)		
2,4-Dimethylphenol	212(28)	38	165	112	135
p-Chlorophenol	217(43)	88	186	139	166
4-Isopropylphenol	224(61)	71	---	---	---

* These compounds are also esters, see that table for derivatives.

--- No data available.

AMINES

Compound	Bp /°C (Mp / °C)	Derivatives Mp/ °C	
		Acetamide	Benzamide
4-Methoxy-2-methylaniline	---(30)	134	---
N-Benzylaniline (C ₆ H ₅ CH ₂ NHC ₆ H ₅)	---(37)	58	107
p-Methylaniline	---(45)	153	158
2-Methoxy-5-methylaniline	---(50)	110	---
p-Methoxyaniline	---(58)	128	155
2,4-Dichloroaniline	---(63)	145	117
p-Bromoaniline	---(66)	167	204
p-Chloroaniline	---(70)	179	192
Aniline	183	114	160
Benzyl amine (C ₆ H ₅ CH ₂ NH ₂)	184	60	105
N-Methylaniline	196	102	63
o-Methylaniline	199	112	143
m-Methylaniline	203	65	125
N-Ethylaniline	205	54	60
o-Chloroaniline	207	87	99
o-Ethylaniline	216	111	147
o-Methoxyaniline	225	87	84
m-Chloroaniline	230	72	120
p-Ethoxyaniline	250	137	173

--- No data available.

ALDEHYDES and KETONES

Compound	Bp /°C (Mp / °C)	Derivatives Mp/ °C		
		Semicarbazone	2,4-Dinitro phenylhydrazone	Oxime
p-Methoxypropiophenone	---(28)	---	---	---
p-Chloropropiophenone	---(36)	176	---	62
p-Methoxyacetophenone	---(38)	197	231	87
3,4-Dimethoxybenzaldehyde	---(44)	177	263	95
2-Acetonaphthone (2-C ₁₀ H ₇ COCH ₃)	---(54)	234	262	146
m-nitrobenzaldehyde	---(58)	246	293(d)	120
2,4-Dimethoxybenzaldehyde	---(69)	---	---	106
Acetone	56	187	126	59
2-Butanone	80	146	117	---
3-Methyl-2-butanone	94	113	117	---
2-Pentanone	102	110	144	58
3-Pentanone	102	139	156	69
3,3-Dimethyl-2-butanone	106	157	125	74
2-Ethylbutanal	116	99	95	---
4-Methyl-2-pentanone	119	135	95	---
2,4-Dimethyl-3-pentanone	125	160	95	34
4-Heptanone	145	133	75	---
3-Heptanone	148	102	80	---
2-Heptanone	151	127	89	---
Cyclohexanone	155	166	162	90
Benzaldehyde	180	222	237	35
Phenylacetaldehyde	194	156	121	---
Acetophenone (C ₆ H ₅ COCH ₃)	200	198	250	59
p-Methylbenzaldehyde	204	221	239	80; 110 [#]
o-Chlorobenzaldehyde	208	225	207	75; 101 [#]
p-Chlorobenzaldehyde	214(47)	230	270	110
Phenylacetone	216	198	156	---
Propiophenone (C ₆ H ₅ COCH ₂ CH ₃)	218	174	191	---
Isobutyrophenone (C ₆ H ₅ COCH(CH ₃) ₂)	222	181	163	---
p-Methylacetophenone	226	204	260	88
n-Butyrophenone (C ₆ H ₅ COCH ₂ CH ₂ CH ₃)	230	187	190	50
p-Chloroacetophenone	232	201	231	95
o-Methoxybenzaldehyde	245 (38)	215	254	92
p-Methoxybenzaldehyde	247	210	254(d)	65; 133 [#]
o-Ethoxybenzaldehyde	248	219	---	---
Cinnamaldehyde (C ₆ H ₅ CH=CHCHO)	252	215	255	64; 138 [#]
2,3-Dimethoxybenzaldehyde	285 (54)	231	264(d)	99
1-Naphthaldehyde	292 (34)	221	---	98
Benzophenone (C ₆ H ₅ COC ₆ H ₅)	305 (48)	164	239	141
9-Fluorenone	341 (83)	234	283	195

--- No data available.

α and β isomers respectively