J. Gmehling
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VAPOR-LIQUID EQUILIBRIUM DATA COLLECTION

Organic Hydroxy Compounds: C_{5+}-Alcohols and Phenols (Supplement 10)

Chemistry Data Series

Vol I, Part 2m (in conjunction with Part 2l)

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Vapor-Liquid Equilibrium Data Collection

2 m

Organic Hydroxy Compounds: C_{5+}-Alcohols and Phenols (Supplement 10)

Tables and diagrams of data for binary and multicomponent mixtures up to moderate pressures. Constants of correlation equations for computer use.

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2 m

Organic Hydroxy Compounds: C_{5+}-Alcohols and Phenols (Supplement 10)

(+–)-2-Hexanol
1-Hexanol
2-Methyl-1-pentanol
4-Methyl-1-pentanol
4-Methyl-2-pentanol
Benzyl alcohol
2-Methylphenol
3-Methylphenol
4-Methylphenol
2-Methylcyclohexanol
2,4-Dimethyl-3-pentanol
3-Ethyl-3-pentanol
1-Heptanol
2,4-Dimethylphenol
2,6-Dimethylphenol
alpha-Phenylethanol
2-Ethyl-1-hexanol
1-Octanol
2-Octanol
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1-Tetradecanol
p-Cumylphenol
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AUTHOR'S PREFACE

This volume is another supplement of our Vapor-Liquid Equilibrium Data Collection. It contains VLE data of systems with C_{5+}-alcohols and the different phenols from the Dortmund Data Bank.

Besides consulting and the development of software tools for the synthesis and design of the various industrial processes the continuous update of the Dortmund Data Bank (DDB), is one of the main activities of DDBST GmbH (www.ddbst.com).

Today the Dortmund Data Bank (DDB) is the largest factual data bank for thermophysical properties. It contains all types of pure component properties and mixture data, such as phase equilibria, excess and transport properties for non-electrolyte, electrolyte and polymer systems. The Dortmund Data Bank (DDB) and the software package is used in-house by a large number of companies. A great part of the stored data is also available online via DETHERM ... on the Web.

The edition of this volume would not have been possible without the valuable efforts of the DDBST team. With gratitude we would also like to mention Dr. R. Sass from DECHEMA for his reliable cooperation in editing this volume.

Oldenburg and Dortmund, December 2010

J. Gmehling U. Onken

PREFACE OF THE EDITOR

DECHEMA e. V. Society for Chemical Engineering and Biotechnology was founded in 1926 with the aim of improving cooperation between chemists and engineers. One concrete implementation of this aim was the publication in the mid-1970s of collections of basic thermophysical data in electronic and book form in response to the increasing importance of mathematical modelling, computer simulation and optimization. On account of its sheer volume and limited circle of interest, this was not the sort of material that publishers rush to publish. DECHEMA leapt into the breach and has since sponsored and published the DECHEMA Chemistry Data Series for well over a quarter of a century. Much of the original work to determine the values obtained was financed by the German Federal Ministry of Research and Technology.

We hope that the publication of this collection of data in the DECHEMA Chemistry Data Series will encourage other authors to publish their own collections of thermophysical data and it goes without saying that we would be happy to pass on the experience we have accumulated over the years.

Finally, no new edition would be complete without a word of thanks to our readers – scientists and engineers from the thermophysical data community – for their constructive suggestions and input which have contributed to its success. We are confident that you will find this new edition of the DECHEMA Chemistry Data Series not only useful, but also interesting and inspiring.

Frankfurt am Main, December 2010 Richard Sass

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		$C_2H_2Cl_4$	1,1,2,2-Tetrachloroethane	621
		$C_2H_4Cl_2$	1,2-Dichloroethane	622
		C_3H_7NO	N,N-Dimethylformamide (DMF)	623
		$C_4H_8O_2$	Ethyl acetate	624
		$C_4H_{10}O_3$	Diethylene glycol	625–628
		$C_6H_5NO_2$	Nitrobenzene	629
		C_6H_6	Benzene	630
		C_6H_7N	Aniline	631
		$C_6H_{12}O_2$	Acetic acid butyl ester	632–635
		C_7H_5N	Benzonitrile	636
		C_7H_6O	Benzaldehyde	637–641
		C_7H_8	Toluene	642–645

C_7H_8O	2-Methylphenol	C_7H_8O	4-Methylphenol	646–650
		$C_7H_8O_2$	2-Methoxyphenol	651–654
		C_7H_{16}	Heptane	655
		C_8H_{10}	Ethylbenzene	656
		C_8H_{10}	m-Xylene	657
		C_8H_{10}	o-Xylene	658
		C_8H_{10}	p-Xylene	659
		$C_8H_{10}O$	2,6-Dimethylphenol	660–662
		$C_8H_{16}O_2$	Hexyl acetate	663
		C_8H_{18}	Octane	664–666
		$C_9H_{18}O_2$	Heptyl acetate	667
		C_9H_{20}	Nonane	668–670
		$C_{10}H_8$	Naphthalene	671
		$C_{10}H_{12}$	1,2,3,4-Tetrahydronaphthalene	672–674
		$C_{10}H_{22}$	Decane	675–678
		$C_{11}H_{24}$	n-Undecane	679–682
	3-Methylphenol	C_2Cl_4	Tetrachloroethylene	683
		$C_2H_2Cl_4$	1,1,2,2-Tetrachloroethane	684
		$C_2H_3Cl_3$	1,1,1-Trichloroethane [R140A]	685
		$C_2H_4Cl_2$	1,2-Dichloroethane	686
		C_3H_7NO	N,N-Dimethylformamide (DMF)	687
		$C_4H_8O_2$	Ethyl acetate	688
		$C_4H_{10}O_3$	Diethylene glycol	689–692
		C_6H_5Br	Bromobenzene	693
		$C_6H_5NO_2$	Nitrobenzene	694
		$C_6H_{12}O_2$	Acetic acid butyl ester	695–698
		$C_6H_{14}O_3$	Diethylene glycol dimethyl ether	699
		C_7H_5N	Benzonitrile	700
		C_7H_6O	Benzaldehyde	701, 702
		C_7H_8	Toluene	703–706
		C_7H_8O	4-Methylphenol	707
		$C_7H_8O_2$	2-Methoxyphenol	708–711
		C_8H_{10}	m-Xylene	712
		C_8H_{10}	o-Xylene	713
		C_8H_{10}	p-Xylene	714
		C_8H_{18}	Octane	715, 716

C_7H_8O	3-Methylphenol	C_9H_7N	Quinoline	717
		C_9H_{12}	Isopropylbenzene	718
		C_9H_{12}	1,2,4-Trimethylbenzene	719
		C_9H_{20}	Nonane	720–723
		$C_{10}H_8$	Naphthalene	724, 725
		$C_{10}H_{12}$	1,2,3,4-Tetrahydronaphthalene	726, 727
		$C_{10}H_{22}$	Decane	728–731
		$C_{11}H_{10}$	2-Methylnaphthalene	732–734
		$C_{11}H_{24}$	n-Undecane	735–738
		$C_{12}H_{26}$	Dodecane	739–742
		$C_{16}H_{20}$	Diisopropylnaphthalene	743
	4-Methylphenol	$CHCl_3$	Chloroform	744
		C_2Cl_4	Tetrachloroethylene	745
		C_2HCl_3	Trichloroethylene	746
		$C_2H_2Cl_4$	1,1,2,2-Tetrachloroethane	747
		$C_2H_4Cl_2$	1,2-Dichloroethane	748
		C_3H_7NO	N,N-Dimethylformamide (DMF)	749
		$C_4H_8O_2$	Ethyl acetate	750
		$C_6H_5NO_2$	Nitrobenzene	751
		C_7H_8	Toluene	752–756
		$C_7H_8O_2$	p-Methoxyphenol	757–760
		C_8H_{10}	Ethylbenzene	761
		C_8H_{10}	m-Xylene	762
		C_8H_{10}	o-Xylene	763
		C_8H_{10}	p-Xylene	764
		$C_8H_{10}O$	2,4-Dimethylphenol	765
		$C_{10}H_{12}$	1,2,3,4-Tetrahydronaphthalene	766, 767
		$C_{12}H_{12}$	1-Ethylnaphthalene	768
$C_7H_{14}O$	2-Methylcyclohexanol <Isomer not specified>	$CHCl_3$	Chloroform	769
		C_6H_6	Benzene	770
		C_7H_{16}	Heptane	771
		$C_9H_{16}O_2$	2-Methylcyclohexyl acetate	772–775
$C_7H_{16}O$	2,4-Dimethyl-3-pentanol	$C_7H_{14}O$	2,4-Dimethyl-3-pentanone	776, 777
	3-Ethyl-3-pentanol	CH_2O	Formaldehyde	778

$C_7H_{16}O$	1-Heptanol	CH_2O	Formaldehyde	779
		C_4H_7N	Butanenitrile	780
$C_8H_{10}O$	2,4-Dimethylphenol	$C_6H_{14}O$	Diisopropyl ether	781
		C_7H_8	Toluene	782
		$C_{10}H_{12}$	1,2,3,4-Tetrahydronaphthalene	783–785
	2,6-Dimethylphenol	$C_4H_{10}O_3$	Diethylene glycol	786
		C_7H_8	Toluene	787
	alpha-Phenylethanol	C_7H_8	Toluene	788
		C_8H_8	Styrene	789
		C_8H_8O	Acetophenone	790–794
		C_8H_{10}	Ethylbenzene	795
$C_8H_{18}O$	2-Ethyl-1-hexanol	CH_2O_2	Formic acid	796
		C_3H_7NO	N,N-Dimethylformamide (DMF)	797
		C_4H_8O	Butyraldehyde	798
		$C_5H_{10}O_2$	Formic acid butyl ester	799
		$C_5H_{10}O_2$	Isobutyl formate	800
		C_7H_8	Toluene	801
		$C_8H_{14}O$	Octen-4-al	802
		$C_8H_{18}O$	Dibutyl ether	803
		$C_8H_{18}O$	Diisobutyl ether	804
		$C_{10}H_{22}$	Decane	805–807
	1-Octanol	$C_2H_4O_2$	Acetic acid	808, 809
		C_3H_6O	Acetone	810
		C_4H_7N	Butanenitrile	811–818
		C_4H_8O	2-Butanone	819–825
		C_4H_9Br	Butyl bromide	826–835
		C_4H_9Cl	Butyl chloride	836–845
		$C_5H_{10}O$	3-Pentanone	846
		$C_6H_{14}O$	Di-n-propyl ether	847–852
		$C_7H_8O_2$	2-Methoxyphenol	853–855
		C_7H_{16}	Heptane	856
		$C_8H_{10}O_2$	1,2-Dimethoxybenzene	857–860
		C_8H_{18}	Octane	861, 862
		$C_{10}H_{22}$	Decane	863, 864

$C_8H_{18}O$	2-Octanol	C_7H_{16}	Heptane	865
$C_9H_{12}O$	2-Phenyl-2-propanol	C_8H_8O	Acetophenone	866
		$C_8H_{12}O$	5,6-Epoxy-cis-cyclooctene	867
		$C_8H_{14}O$	1,2-Epoxy-7-octene	868
		C_9H_{12}	Isopropylbenzene	869
$C_9H_{20}O$	1-Nonanol	C_4H_7N	Butanenitrile	870
$C_{10}H_{14}O$	2-tert-Butylphenol	$C_{10}H_{14}O$	4-tert-Butylphenol	871
$C_{10}H_{16}O$	3,7-Dimethyl-6-octen-1-yn-3-ol	C_2H_6OS	Dimethyl sulfoxide	872
		C_5H_9NO	N-Methyl-2-pyrrolidone	873
		$C_{10}H_{18}O$	Linalool	874
$C_{10}H_{22}O$	1-Decanol	CCl_4	Tetrachloromethane	875–877
		C_4H_7N	Butanenitrile	878
		C_4H_9Br	Butyl bromide	879–887
		C_4H_9Cl	Butyl chloride	888–896
$C_{11}H_{16}O$	2-tert-Butyl-5-methylphenol	C_6H_{12}	Cyclohexane	897, 898
	2-tert-Butyl-6-methylphenol	C_6H_{12}	Cyclohexane	899, 900
$C_{11}H_{24}O$	1-Undecanol	$C_{12}H_{22}O$	Cyclododecanone	901, 902
$C_{12}H_{18}O$	2,6-Di-isopropylphenol	C_6H_{12}	Cyclohexane	903, 904
$C_{12}H_{26}O$	1-Dodecanol	$C_{11}H_{24}$	n-Undecane	905
		$C_{14}H_{30}$	Tetradecane	906
		$C_{16}H_{34}O$	1-Hexadecanol	907
$C_{14}H_{22}O$	2,6-Di-tert-butylphenol	C_6H_{12}	Cyclohexane	908, 909
$C_{14}H_{30}O$	1-Tetradecanol	$C_{11}H_{24}$	n-Undecane	910
		$C_{18}H_{38}O$	1-Octadecanol	911
$C_{15}H_{16}O$	p-Cumylphenol	C_8H_8O	Acetophenone	912
$C_{16}H_{34}O$	1-Hexadecanol	$C_{11}H_{24}$	n-Undecane	913

Acetic acid	$C_2H_4O_2$	1-Hexanol	$C_6H_{14}O$	512–514
		1-Octanol	$C_8H_{18}O$	808, 809
		tert-Pentanol	$C_5H_{12}O$	206
Acetic acid butyl ester	$C_6H_{12}O_2$	Cyclohexanol	$C_6H_{12}O$	486
		1,2-Dihydroxybenzene <Pyrocatechol>	$C_6H_6O_2$	424–428
		1,3-Dihydroxybenzene <Resorcinol>	$C_6H_6O_2$	435–440
		3-Methyl-1-butanol	$C_5H_{12}O$	73–75
		2-Methylphenol	C_7H_8O	632–635
		3-Methylphenol	C_7H_8O	695–698
		1-Pentanol	$C_5H_{12}O$	134
		tert-Pentanol	$C_5H_{12}O$	220
		Phenol	C_6H_6O	302–306
Acetic acid isobutyl ester	$C_6H_{12}O_2$	1-Hexanol	$C_6H_{14}O$	563
Acetone	C_3H_6O	Cyclohexanol	$C_6H_{12}O$	453
		1-Octanol	$C_8H_{18}O$	810
		Phenol	C_6H_6O	252–259
Acetophenone	C_8H_8O	Benzyl alcohol	C_7H_8O	599–607
		p-Cumylphenol	$C_{15}H_{16}O$	912
		1-Pentanol	$C_5H_{12}O$	157
		Phenol	C_6H_6O	341–344
		alpha-Phenylethanol	$C_8H_{10}O$	790–794
		2-Phenyl-2-propanol	$C_9H_{12}O$	866
Aniline	C_6H_7N	2-Methylphenol	C_7H_8O	631
		1-Pentanol	$C_5H_{12}O$	126
		Phenol	C_6H_6O	283
Benzaldehyde	C_7H_6O	Benzyl alcohol	C_7H_8O	597
		2-Methylphenol	C_7H_8O	637–641
		3-Methylphenol	C_7H_8O	701,702
Benzene	C_6H_6	2-Methylcyclohexanol <Isomer not specified>	$C_7H_{14}O$	770
		2-Methylphenol	C_7H_8O	630

Benzene	C_6H_6	1-Pentanol	$C_5H_{12}O$	124
		3-Pentanol	$C_5H_{12}O$	196
		tert-Pentanol	$C_5H_{12}O$	219
		Phenol	C_6H_6O	278–280
Benzonitrile	C_7H_5N	2-Methylphenol	C_7H_8O	636
		3-Methylphenol	C_7H_8O	700
Benzyl alcohol	C_7H_8O	Cyclohexanol	$C_6H_{12}O$	490, 491
		Phenol	C_6H_6O	317
Benzylaminoxide	$C_{21}H_{21}NO$	3-Methyl-1-butanol	$C_5H_{12}O$	93
Benzyl benzoate	$C_{14}H_{12}O_2$	Benzyl alcohol	C_7H_8O	617
		Phenol	C_6H_6O	414
Benzyl chloride	C_7H_7Cl	3-Methyl-1-butanol	$C_5H_{12}O$	82
(1,1′-Bicyclohexyl)one <Isomer not specified>	$C_{12}H_{20}O$	Cyclohexanol	$C_6H_{12}O$	505, 506
		Phenol	C_6H_6O	409, 410
Biphenyl	$C_{12}H_{10}$	Benzyl alcohol	C_7H_8O	610–616
Bromobenzene	C_6H_5Br	3-Methylphenol	C_7H_8O	693
n-Butane	C_4H_{10}	Phenol	C_6H_6O	268
Butanenitrile	C_4H_7N	1-Decanol	$C_{10}H_{22}O$	878
		1-Heptanol	$C_7H_{16}O$	780
		1-Hexanol	$C_6H_{14}O$	517–524
		1-Nonanol	$C_9H_{20}O$	870
		1-Octanol	$C_8H_{18}O$	811–818
		1-Pentanol	$C_5H_{12}O$	114
2-Butanone	C_4H_8O	1-Hexanol	$C_6H_{14}O$	525–531
		3-Methyl-1-butanol	$C_5H_{12}O$	58
		1-Octanol	$C_8H_{18}O$	819–825
		1-Pentanol	$C_5H_{12}O$	115, 116
		tert-Pentanol	$C_5H_{12}O$	209, 210
2-Butoxyethanol	$C_6H_{14}O_2$	1-Pentanol	$C_5H_{12}O$	141
Butylbenzene	$C_{10}H_{14}$	Phenol	C_6H_6O	392–396

Butyl bromide	C_4H_9Br	1-Decanol	$C_{10}H_{22}O$	879–887
		1-Hexanol	$C_6H_{14}O$	532–540
		1-Octanol	$C_8H_{18}O$	826–835
Butyl chloride	C_4H_9Cl	1-Decanol	$C_{10}H_{22}O$	888–896
		1-Hexanol	$C_6H_{14}O$	541–550
		1-Octanol	$C_8H_{18}O$	836–845
n-Butylcyclohexane	$C_{10}H_{20}$	Phenol	C_6H_6O	403, 404
2-tert-Butylphenol	$C_{10}H_{14}O$	Phenol	C_6H_6O	398, 399
		4-tert-Butylphenol	$C_{10}H_{14}O$	871
Butyraldehyde	C_4H_8O	2-Ethyl-1-hexanol	$C_8H_{18}O$	798
		2-Methyl-3-buten-2-ol	$C_5H_{10}O$	10
Carbon disulfide	CS_2	Phenol	C_6H_6O	246
Carbonic acid diethyl ester	$C_5H_{10}O_3$	1-Hexanol	$C_6H_{14}O$	552, 553
		1-Pentanol	$C_5H_{12}O$	122
Carbonic acid dimethyl ester	$C_3H_6O_3$	Benzyl alcohol	C_7H_8O	595
		1-Hexanol	$C_6H_{14}O$	515, 516
		1-Pentanol	$C_5H_{12}O$	107
		Phenol	C_6H_6O	264
Chlorobenzene	C_6H_5Cl	3-Methyl-1-butanol	$C_5H_{12}O$	69
		3-Methyl-2-butanol	$C_5H_{12}O$	99
		tert-Pentanol	$C_5H_{12}O$	218
		Phenol	C_6H_6O	273–275
Chloroform	$CHCl_3$	2-Methylcyclohexanol <Isomer not specified>	$C_7H_{14}O$	769
		2-Methylphenol	C_7H_8O	618
		4-Methylphenol	C_7H_8O	744
		Phenol	C_6H_6O	247
p-Cumylphenol	$C_{15}H_{16}O$	Phenol	C_6H_6O	415–418
Cyclododecanone	$C_{12}H_{22}O$	1-Undecanol	$C_{11}H_{24}O$	901, 902

Cyclohexane	C_6H_{12}	2-tert-Butyl-5-methylphenol	$C_{11}H_{16}O$	897, 898
		2-tert-Butyl-6-methylphenol	$C_{11}H_{16}O$	899, 900
		Cyclohexanol	$C_6H_{12}O$	474–478
		2,6-Di-tert-butylphenol	$C_{14}H_{22}O$	908, 909
		2,6-Di-isopropylphenol	$C_{12}H_{18}O$	903, 904
		1-Hexanol	$C_6H_{14}O$	559–562
		2-Methyl-1-butanol	$C_5H_{12}O$	44
		1-Pentanol	$C_5H_{12}O$	128
		2-Pentanol	$C_5H_{12}O$	179–181
		Phenol	C_6H_6O	294
Cyclohexanol	$C_6H_{12}O$	3-Methyl-1-butanol	$C_5H_{12}O$	72
		1-Pentanol	$C_5H_{12}O$	129
		Phenol	C_6H_6O	295–301
Cyclohexanone	$C_6H_{10}O$	Cyclohexanol	$C_6H_{12}O$	462–473
		1-Hexanol	$C_6H_{14}O$	557, 558
		3-Methyl-1-butanol	$C_5H_{12}O$	71
		1-Pentanol	$C_5H_{12}O$	127
		Phenol	C_6H_6O	284–291
Cyclohexene	C_6H_{10}	Cyclohexanol	$C_6H_{12}O$	458–461
Cyclohexyl ester formic acid	$C_7H_{12}O_2$	Cyclohexanol	$C_6H_{12}O$	493
Cyclopentane	C_5H_{10}	Cyclopentanol	$C_5H_{10}O$	6
Cyclopentanone	C_5H_8O	Cyclohexanol	$C_6H_{12}O$	457
		3-Methyl-1-butanol	$C_5H_{12}O$	62
		1-Pentanol	$C_5H_{12}O$	121
trans-Decahydronaphthalene	$C_{10}H_{18}$	Phenol	C_6H_6O	400, 401
Decalin <Isomer not specified>	$C_{10}H_{18}$	Phenol	C_6H_6O	402
Decane	$C_{10}H_{22}$	Benzyl alcohol	C_7H_8O	609
		2-Ethyl-1-hexanol	$C_8H_{18}O$	805–807
		2-Methyl-1-butanol	$C_5H_{12}O$	54
		3-Methyl-3-buten-1-ol	$C_5H_{10}O$	25

Decane	$C_{10}H_{22}$	2-Methylphenol	C_7H_8O	675–678
		3-Methylphenol	C_7H_8O	728–731
		1-Octanol	$C_8H_{18}O$	863, 864
		Phenol	C_6H_6O	405
Dibutyl ether	$C_8H_{18}O$	2-Ethyl-1-hexanol	$C_8H_{18}O$	803
		1-Pentanol	$C_5H_{12}O$	160–163
1,1-Dichloroethane [R150A]	$C_2H_4Cl_2$	Phenol	C_6H_6O	251
1,2-Dichloroethane	$C_2H_4Cl_2$	1-Hexanol	$C_6H_{14}O$	511
		2-Methyl-1-butanol	$C_5H_{12}O$	37
		2-Methylphenol	C_7H_8O	622
		3-Methylphenol	C_7H_8O	686
		4-Methylphenol	C_7H_8O	748
		Phenol	C_6H_6O	250
trans-1,2-Dichloroethene	$C_2H_2Cl_2$	Phenol	C_6H_6O	249
Dichloromethane	CH_2Cl_2	Phenol	C_6H_6O	248
Diethylbenzene <Isomer not specified>	$C_{10}H_{14}$	Phenol	C_6H_6O	397
Diethylene glycol	$C_4H_{10}O_3$	Cyclohexanol	$C_6H_{12}O$	456
		2,6-Dimethylphenol	$C_8H_{10}O$	786
		1-Hexanol	$C_6H_{14}O$	551
		2-Methylphenol	C_7H_8O	625–628
		3-Methylphenol	C_7H_8O	689–692
		1-Pentanol	$C_5H_{12}O$	120
Diethylene glycol dimethyl ether	$C_6H_{14}O_3$	3-Methylphenol	C_7H_8O	699
		Phenol	C_6H_6O	310
Diethyl ether	$C_4H_{10}O$	1,2-Dihydroxybenzene <Pyrocatechol>	$C_6H_6O_2$	423
1,3-Dihydroxybenzene <Resorcinol>	$C_6H_6O_2$	Phenol	C_6H_6O	281, 282
Diisobutyl ether	$C_8H_{18}O$	2-Ethyl-1-hexanol	$C_8H_{18}O$	804

Diisopropyl ether	$C_6H_{14}O$	2,4-Dimethylphenol	$C_8H_{10}O$	781
		3-Methyl-1-butanol	$C_5H_{12}O$	80
		Phenol	C_6H_6O	308
Diisopropylnaphthalene	$C_{16}H_{20}$	3-Methylphenol	C_7H_8O	743
1,2-Dimethoxybenzene	$C_8H_{10}O_2$	1-Octanol	$C_8H_{18}O$	857–860
Dimethoxymethane	$C_3H_8O_2$	3-Methyl-3-buten-1-ol	$C_5H_{10}O$	18
3,3-Dimethyl-2-butanone	$C_6H_{12}O$	2,2-Dimethyl-1-propanol	$C_5H_{12}O$	29–31
4,4-Dimethyl-1,3-dioxane	$C_6H_{12}O_2$	3-Methyl-3-buten-1-ol	$C_5H_{10}O$	23
N,N-Dimethylformamide (DMF)	C_3H_7NO	2-Ethyl-1-hexanol	$C_8H_{18}O$	797
		2-Methylphenol	C_7H_8O	623
		3-Methylphenol	C_7H_8O	687
		4-Methylphenol	C_7H_8O	749
		1-Pentanol	$C_5H_{12}O$	108–110
2,4-Dimethyl-3-pentanol	$C_7H_{16}O$	2-Methyl-1-butanol	$C_5H_{12}O$	89, 90
		4-Methyl-1-pentanol	$C_6H_{14}O$	591
2,4-Dimethyl-3-pentanone	$C_7H_{14}O$	2,4-Dimethyl-3-pentanol	$C_7H_{16}O$	776, 777
		3-Methyl-1-butanol	$C_5H_{12}O$	83
2,4-Dimethylphenol	$C_8H_{10}O$	4-Methylphenol	C_7H_8O	765
2,6-Dimethylphenol	$C_8H_{10}O$	2-Methylphenol	C_7H_8O	660–662
Dimethyl sulfoxide	C_2H_6OS	3,7-Dimethyl-6-octen-1-yn-3-ol	$C_{10}H_{16}O$	872
		2-Methyl-3-butyn-2-ol	C_5H_8O	2
1,4-Dioxane	$C_4H_8O_2$	Cyclopentanol	$C_5H_{10}O$	5
Di-n-propyl ether	$C_6H_{14}O$	1-Hexanol	$C_6H_{14}O$	564–570
		1-Octanol	$C_8H_{18}O$	847–852
		1-Pentanol	$C_5H_{12}O$	140
Dodecane	$C_{12}H_{26}$	3-Methylphenol	C_7H_8O	739–742
		Phenol	C_6H_6O	412, 413

Eicosane	$C_{20}H_{42}$	Phenol	C_6H_6O	421
5,6-Epoxy-cis-cyclooctene	$C_8H_{12}O$	2-Phenyl-2-propanol	$C_9H_{12}O$	867
1,2-Epoxy-7-octene	$C_8H_{14}O$	Phenol	C_6H_6O	353
		2-Phenyl-2-propanol	$C_9H_{12}O$	868
2-Ethoxyethanol	$C_4H_{10}O_2$	Phenol	C_6H_6O	269–271
Ethyl acetate	$C_4H_8O_2$	Cyclohexanol	$C_6H_{12}O$	454, 455
		2-Methyl-1-butanol	$C_5H_{12}O$	38, 39
		3-Methyl-1-butanol	$C_5H_{12}O$	59, 61
		2-Methylphenol	C_7H_8O	624
		3-Methylphenol	C_7H_8O	688
		4-Methylphenol	C_7H_8O	750
		1-Pentanol	$C_5H_{12}O$	117–119
		tert-Pentanol	$C_5H_{12}O$	211
Ethylbenzene	C_8H_{10}	1-Hexanol	$C_6H_{14}O$	572
		3-Methyl-1-butanol	$C_5H_{12}O$	91, 92
		2-Methylphenol	C_7H_8O	656
		4-Methylphenol	C_7H_8O	761
		1-Pentanol	$C_5H_{12}O$	158
		Phenol	C_6H_6O	345–348
		alpha-Phenylethanol	$C_8H_{10}O$	795
Ethylcyclohexane	C_8H_{16}	Phenol	C_6H_6O	354, 355
2-Ethyl-2-hydroxymethyl-1,3-propanediol	$C_6H_{14}O_3$	Cyclohexanol	$C_6H_{12}O$	487–489
1-Ethylnaphthalene	$C_{12}H_{12}$	4-Methylphenol	C_7H_8O	768
		Phenol	C_6H_6O	407, 408
Formaldehyde	CH_2O	3-Ethyl-3-pentanol	$C_7H_{16}O$	778
		1-Heptanol	$C_7H_{16}O$	779
		(+–)-2-Hexanol	$C_6H_{14}O$	507
		2-Methyl-3-buten-2-ol	$C_5H_{10}O$	7–9
		3-Methyl-3-buten-1-ol	$C_5H_{10}O$	15–17
Formic acid	CH_2O_2	2-Ethyl-1-hexanol	$C_8H_{18}O$	796

Formic acid butyl ester	$C_5H_{10}O_2$	2-Ethyl-1-hexanol	$C_8H_{18}O$	799
Formic acid ethyl ester	$C_3H_6O_2$	Phenol	C_6H_6O	260, 261
Heptane	C_7H_{16}	Benzyl alcohol	C_7H_8O	598
		2-Methyl-1-butanol	$C_5H_{12}O$	49–53
		3-Methyl-1-butanol	$C_5H_{12}O$	84–88
		3-Methyl-2-butanol	$C_5H_{12}O$	102
		2-Methylcyclohexanol <Isomer not specified>	$C_7H_{14}O$	771
		2-Methylphenol	C_7H_8O	655
		1-Octanol	$C_8H_{18}O$	856
		2-Octanol	$C_8H_{18}O$	865
		1-Pentanol	$C_5H_{12}O$	148–156
		2-Pentanol	$C_5H_{12}O$	189–193
		3-Pentanol	$C_5H_{12}O$	201–205
		tert-Pentanol	$C_5H_{12}O$	234–241
		Phenol	C_6H_6O	337
Heptyl acetate	$C_9H_{18}O_2$	2-Methylphenol	C_7H_8O	667
		Phenol	C_6H_6O	383
1-Hexadecanol	$C_{16}H_{34}O$	1-Dodecanol	$C_{12}H_{26}O$	907
Hexamethyl disiloxane	$C_6H_{18}OSi_2$	3-Methyl-1-butanol	$C_5H_{12}O$	81
		1-Pentanol	$C_5H_{12}O$	142
Hexanal	$C_6H_{12}O$	Cyclohexanol	$C_6H_{12}O$	479–482
Hexane	C_6H_{14}	Benzyl alcohol	C_7H_8O	596
		2-Methyl-1-butanol	$C_5H_{12}O$	45–48
		3-Methyl-1-butanol	$C_5H_{12}O$	76–79
		1-Pentanol	$C_5H_{12}O$	135–139
		2-Pentanol	$C_5H_{12}O$	182–188
		3-Pentanol	$C_5H_{12}O$	197–200
		tert-Pentanol	$C_5H_{12}O$	221–229
		Phenol	C_6H_6O	307

1-Hexanol	$C_6H_{14}O$	2-Hexyn-1-ol	$C_6H_{10}O$	447–449
2-Hexanone	$C_6H_{12}O$	Cyclohexanol	$C_6H_{12}O$	483–485
		1-Pentanol	$C_5H_{12}O$	130–133
1-Hexene	C_6H_{12}	2-Methyl-3-buten-2-ol	$C_5H_{10}O$	13
Hexyl acetate	$C_8H_{16}O_2$	1-Hexanol	$C_6H_{14}O$	577–584
		2-Methylphenol	C_7H_8O	663
		Phenol	C_6H_6O	357
1-Hexylnaphthalene	$C_{16}H_{20}$	Phenol	C_6H_6O	419
Isobutyl formate	$C_5H_{10}O_2$	2-Ethyl-1-hexanol	$C_8H_{18}O$	800
Isoprene	C_5H_8	3-Methyl-3-buten-1-ol	$C_5H_{10}O$	19
Isopropylbenzene	C_9H_{12}	Benzyl alcohol	C_7H_8O	608
		3-Methylphenol	C_7H_8O	718
		Phenol	C_6H_6O	360–369
		2-Phenyl-2-propanol	$C_9H_{12}O$	869
D-(+)-Limonene	$C_{10}H_{16}$	1-Pentanol	$C_5H_{12}O$	175–178
Linalool	$C_{10}H_{18}O$	3,7-Dimethyl-6-octen-1-yn-3-ol	$C_{10}H_{16}O$	874
Methoxybenzene	C_7H_8O	1-Pentanol	$C_5H_{12}O$	143–147
2-Methoxyethanol	$C_3H_8O_2$	1-Pentanol	$C_5H_{12}O$	111–113
p-Methoxyphenol	$C_7H_8O_2$	1,2-Dihydroxybenzene <Pyrocatechol>	$C_6H_6O_2$	433, 434
		4-Methylphenol	C_7H_8O	757–760
2-Methoxyphenol	$C_7H_8O_2$	2-Methylphenol	C_7H_8O	651–654
		3-Methylphenol	C_7H_8O	708–711
		1-Octanol	$C_8H_{18}O$	853–855
		Phenol	C_6H_6O	334–336
N-Methylacetamide	C_3H_7NO	Phenol	C_6H_6O	265, 266

Methyl tert-amyl ether (TAME)	$C_6H_{14}O$	tert-Pentanol	$C_5H_{12}O$	230–233
		Phenol	C_6H_6O	309
3-Methyl-1-butanol	$C_5H_{12}O$	2-Methyl-1-butanol	$C_5H_{12}O$	40, 41
2-Methyl-2-butene	C_5H_{10}	tert-Pentanol	$C_5H_{12}O$	212, 213
2-Methyl-3-buten-2-ol	$C_5H_{10}O$	2-Methyl-3-butyn-2-ol	C_5H_8O	4
Methyl tert-butyl ether (MTBE)	$C_5H_{12}O$	2,2-Dimethyl-1-propanol	$C_5H_{12}O$	26–28
		1-Hexanol	$C_6H_{14}O$	554–556
2-Methylcyclohexanone	$C_7H_{12}O$	Cyclohexanol	$C_6H_{12}O$	492
2-Methylcyclohexyl acetate	$C_9H_{16}O_2$	2-Methylcyclohexanol <Isomer not specified>	$C_7H_{14}O$	772–775
Methyldihydropyran <Isomer not specified>	$C_6H_{10}O$	3-Methyl-3-buten-1-ol	$C_5H_{10}O$	21
Methylenecyclobutane	C_5H_8	2-Methyl-3-buten-2-ol	$C_5H_{10}O$	11
		3-Methyl-3-buten-1-ol	$C_5H_{10}O$	20
Methylene tetrahydropyran	$C_6H_{10}O$	2-Methyl-3-buten-2-ol	$C_5H_{10}O$	12
		3-Methyl-3-buten-1-ol	$C_5H_{10}O$	22
Methyl isopropyl ketone	$C_5H_{10}O$	3-Methyl-2-butanol	$C_5H_{12}O$	94–96
		tert-Pentanol	$C_5H_{12}O$	214, 215
1-Methylnaphthalene	$C_{11}H_{10}$	Phenol	C_6H_6O	406
2-Methylnaphthalene	$C_{11}H_{10}$	3-Methylphenol	C_7H_8O	732–734
2-Methylpentane	C_6H_{14}	3-Methyl-2-butanol	$C_5H_{12}O$	100, 101
4-Methyl-2-pentanone	$C_6H_{12}O$	4-Methyl-2-pentanol	$C_6H_{14}O$	592–594
4-Methyl-3-penten-2-one	$C_6H_{10}O$	Phenol	C_6H_6O	292, 293
2-Methylphenol	C_7H_8O	1,3-Dihydroxybenzene <Resorcinol>	$C_6H_6O_2$	441–443
		Phenol	C_6H_6O	318–326
3-Methylphenol	C_7H_8O	Phenol	C_6H_6O	327, 328

4-Methylphenol	C_7H_8O	1,2-Dihydroxybenzene <Pyrocatechol>	$C_6H_6O_2$	429–432
		1,3-Dihydroxybenzene <Resorcinol>	$C_6H_6O_2$	444–446
		2-Methylphenol	C_7H_8O	646–650
		3-Methylphenol	C_7H_8O	707
		Phenol C_6H_6O	329–333	
N-Methyl-2-pyrrolidone	C_5H_9NO	3,7-Dimethyl-6-octen-1-yn-3-ol	$C_{10}H_{16}O$	873
		3-Methyl-1-butanol	$C_5H_{12}O$	63
		2-Methyl-3-butyn-2-ol	C_5H_8O	3
Naphthalene	$C_{10}H_8$	2-Methylphenol	C_7H_8O	671
		3-Methylphenol	C_7H_8O	724, 725
		Phenol C_6H_6O	384	385
Nitrobenzene	$C_6H_5NO_2$	2-Methylphenol	C_7H_8O	629
		3-Methylphenol	C_7H_8O	694
		4-Methylphenol	C_7H_8O	751
		Phenol	C_6H_6O	276, 277
Nonane	C_9H_{20}	Cyclohexanol	$C_6H_{12}O$	502–504
		2-Hexyn-1-ol	$C_6H_{10}O$	450–452
		3-Methyl-3-buten-1-ol	$C_5H_{10}O$	24
		2-Methylphenol	C_7H_8O	668–670
		3-Methylphenol	C_7H_8O	720–723
		1-Pentanol	$C_5H_{12}O$	164–167
1-Nonene	C_9H_{18}	Phenol	C_6H_6O	382
1-Octadecanol	$C_{18}H_{38}O$	1-Tetradecanol	$C_{14}H_{30}O$	911
Octane	C_8H_{18}	2-Methylphenol	C_7H_8O	664–666
		3-Methylphenol	C_7H_8O	715, 716
		1-Octanol	$C_8H_{18}O$	861, 862
2-Octanone	$C_8H_{16}O$	1-Hexanol	$C_6H_{14}O$	573–576
Octen-4-al	$C_8H_{14}O$	2-Ethyl-1-hexanol	$C_8H_{18}O$	802
1-Octene	C_8H_{16}	Phenol	C_6H_6O	356

1,1′-Oxybiscyclohexane	$C_{12}H_{22}O$	Phenol	C_6H_6O	411
Pentane	C_5H_{12}	tert-Pentanol	$C_5H_{12}O$	216, 217
		Phenol	C_6H_6O	272
1-Pentanol	$C_5H_{12}O$	2-Methyl-1-butanol	$C_5H_{12}O$	42
		3-Methyl-1-butanol	$C_5H_{12}O$	64–68
		3-Methyl-2-butanol	$C_5H_{12}O$	97
tert-Pentanol	$C_5H_{12}O$	2-Methyl-1-butanol	$C_5H_{12}O$	43
		3-Methyl-2-butanol	$C_5H_{12}O$	98
		1-Pentanol	$C_5H_{12}O$	123
2-Pentanone	$C_5H_{10}O$	3-Pentanol	$C_5H_{12}O$	194
3-Pentanone	$C_5H_{10}O$	1-Octanol	$C_8H_{18}O$	846
		3-Pentanol	$C_5H_{12}O$	195
Phenol	C_6H_6O	3-Methyl-1-butanol	$C_5H_{12}O$	70
		1-Pentanol	$C_5H_{12}O$	125
1-Phenyldodecane	$C_{18}H_{30}$	Phenol	C_6H_6O	420
alpha-Phenylethanol	$C_8H_{10}O$	Phenol	C_6H_6O	349–352
2-Phenyl-2-propanol	$C_9H_{12}O$	Phenol	C_6H_6O	378–381
2-Phenylpropionaldehyde	$C_9H_{10}O$	Phenol	C_6H_6O	358, 359
alpha-Pinene	$C_{10}H_{16}$	1-Hexanol	$C_6H_{14}O$	585–587
		1-Pentanol	$C_5H_{12}O$	168–172
beta-Pinene	$C_{10}H_{16}$	1-Pentanol	$C_5H_{12}O$	173, 174
Propanal	C_3H_6O	2-Methyl-1-pentanol	$C_6H_{14}O$	590
		tert-Pentanol	$C_5H_{12}O$	207, 208
Propionic acid	$C_3H_6O_2$	1-Pentanol	$C_5H_{12}O$	106
		Phenol	C_6H_6O	262, 263
Propionitrile	C_3H_5N	2-Methyl-1-pentanol	$C_6H_{14}O$	588, 589
1-Propoxy-2-Propanol	$C_6H_{14}O_2$	1-Hexanol	$C_6H_{14}O$	571

Propylbenzene	C_9H_{12}	Phenol	C_6H_6O	370–373
Quinoline	C_9H_7N	3-Methylphenol	C_7H_8O	717
Styrene	C_8H_8	Phenol	C_6H_6O	338–340
		alpha-Phenylethanol	$C_8H_{10}O$	789
1,1,2,2-Tetrachloroethane	$C_2H_2Cl_4$	1-Hexanol	$C_6H_{14}O$	510
		2-Methylphenol	C_7H_8O	621
		3-Methylphenol	C_7H_8O	684
		4-Methylphenol	C_7H_8O	747
Tetrachloroethylene	C_2Cl_4	1-Hexanol	$C_6H_{14}O$	508
		2-Methyl-1-butanol	$C_5H_{12}O$	32–34
		3-Methyl-1-butanol	$C_5H_{12}O$	55
		2-Methylphenol	C_7H_8O	619
		3-Methylphenol	C_7H_8O	683
		4-Methylphenol	C_7H_8O	745
		1-Pentanol	$C_5H_{12}O$	104
Tetrachloromethane	CCl_4	1-Decanol	$C_{10}H_{22}O$	875–877
		1-Pentanol	$C_5H_{12}O$	103
		Phenol	C_6H_6O	245
Tetradecane	$C_{14}H_{30}$	1-Dodecanol	$C_{12}H_{26}O$	906
Tetrahydrofuran	C_4H_8O	Phenol	C_6H_6O	267
1,2,3,4-Tetrahydronaphthalene	$C_{10}H_{12}$	2,4-Dimethylphenol	$C_8H_{10}O$	783–785
		2-Methylphenol	C_7H_8O	672–674
		3-Methylphenol	C_7H_8O	726, 727
		4-Methylphenol	C_7H_8O	766, 767
		Phenol	C_6H_6O	386–391
Tin tetrachloride	Cl_4Sn	Phenol	C_6H_6O	242–244
Toluene	C_7H_8	2,4-Dimethylphenol	$C_8H_{10}O$	782
		2,6-Dimethylphenol	$C_8H_{10}O$	787
		2-Ethyl-1-hexanol	$C_8H_{18}O$	801
		2-Methylphenol	C_7H_8O	642–645
		3-Methylphenol	C_7H_8O	703–706

Toluene	C_7H_8	4-Methylphenol	C_7H_8O	752–756
		Phenol	C_6H_6O	311–316
		alpha-Phenylethanol	$C_8H_{10}O$	788
Triacontane	$C_{30}H_{62}$	Phenol	C_6H_6O	422
1,1,1-Trichloroethane [R140A]	$C_2H_3Cl_3$	2-Methyl-1-butanol	$C_5H_{12}O$	36
		3-Methylphenol	C_7H_8O	685
Trichloroethylene	C_2HCl_3	1-Hexanol	$C_6H_{14}O$	509
		2-Methyl-1-butanol	$C_5H_{12}O$	35
		3-Methyl-1-butanol	$C_5H_{12}O$	56
		2-Methylphenol	C_7H_8O	620
		4-Methylphenol	C_7H_8O	746
		1-Pentanol	$C_5H_{12}O$	105
1,2,3-Trimethylbenzene	C_9H_{12}	Phenol	C_6H_6O	374, 375
1,2,4-Trimethylbenzene	C_9H_{12}	3-Methylphenol	C_7H_8O	719
		Phenol C_6H_6O	376	377
2,2,4-Trimethylpentane	C_8H_{18}	1-Pentanol	$C_5H_{12}O$	159
2,4,4-Trimethyl-2-pentene	C_8H_{16}	2-Methyl-3-buten-2-ol	$C_5H_{10}O$	14
n-Undecane	$C_{11}H_{24}$	1-Dodecanol	$C_{12}H_{26}O$	905
		1-Hexadecanol	$C_{16}H_{34}O$	913
		2-Methylphenol	C_7H_8O	679–682
		3-Methylphenol	C_7H_8O	735–738
		1-Tetradecanol	$C_{14}H_{30}O$	910
Vinyl acetate	$C_4H_6O_2$	3-Methyl-1-butanol	$C_5H_{12}O$	57
m-Xylene	C_8H_{10}	Cyclohexanol	$C_6H_{12}O$	494–497
		2-Methylphenol	C_7H_8O	657
		3-Methylphenol	C_7H_8O	712
		4-Methylphenol	C_7H_8O	762
o-Xylene	C_8H_{10}	Cyclohexanol	$C_6H_{12}O$	498–500
		2-Methylphenol	C_7H_8O	658
		3-Methylphenol	C_7H_8O	713
		4-Methylphenol	C_7H_8O	763

p-Xylene	C_8H_{10}	Cyclohexanol	$C_6H_{12}O$	501
		2-Methylphenol	C_7H_8O	659
		3-Methylphenol	C_7H_8O	714
		4-Methylphenol	C_7H_8O	764

C_5H_8O	2-Methyl-3-butyn-2-ol	$C_5H_{10}O$	2-Methyl-3-buten-2-ol	$C_5H_{12}O$	tert-Pentanol	914
$C_5H_{12}O$	2,2-Dimethyl-1-propanol	$C_5H_{12}O$	Methyl tert-butyl ether (MTBE)	$C_6H_{12}O$	3,3-Dimethyl-2-butanone	915–917
$C_5H_{12}O$	2-Methyl-1-butanol	$C_5H_{12}O$	tert-Pentanol	$C_5H_{12}O$	1-Pentanol	918
$C_5H_{12}O$	3-Methyl-1-butanol	$C_5H_{12}O$	1-Pentanol	$C_6H_{10}O$	Cyclohexanone	919
		$C_6H_{12}O_2$	Acetic acid butyl ester	C_8H_{10}	Ethylbenzene	920, 921
$C_5H_{12}O$	3-Methyl-2-butanol	$C_5H_{10}O$	Methyl isopropyl ketone	C_6H_{14}	2-Methylpentane	922, 923
$C_5H_{12}O$	1-Pentanol	$C_5H_{12}O$	tert-Pentanol	$C_7H_{14}O_2$	Acetic acid 3-methylbutyl ester	924
		C_6H_6	Benzene	C_6H_{12}	Cyclohexane	925, 926
		$C_6H_{10}O$	Cyclohexanone	C_8H_8O	Acetophenone	927
		$C_6H_{12}O$	2-Hexanone	C_7H_8O	Methoxybenzene	928–931
		$C_6H_{12}O$	2-Hexanone	C_9H_{20}	Nonane	932–934
		C_7H_8O	Methoxybenzene	C_9H_{20}	Nonane	935–938
		$C_8H_{18}O$	Dibutyl ether	C_9H_{20}	Nonane	939–942
$C_5H_{12}O$	3-Pentanol	$C_5H_{10}O$	2-Pentanone	$C_5H_{10}O$	3-Pentanone	943
$C_5H_{12}O$	tert-Pentanol	$C_2H_4O_2$	Acetic acid	$C_6H_{12}O_2$	Acetic acid butyl ester	944
		C_6H_6	Benzene	C_6H_{12}	Cyclohexane	945
		C_6H_{14}	Hexane	$C_6H_{14}O$	Methyl tert-amyl ether (TAME)	946
C_6H_6O	Phenol	C_3H_6O	Acetone	C_9H_{12}	Isopropylbenzene	947–949
		C_3H_6O	Acetone	$C_{10}H_{18}$	Decalin <Isomer not specified>	950
		C_6H_7N	Aniline	C_9H_{12}	1,2,4-Trimethylbenzene	951
		C_6H_7N	Aniline	$C_{10}H_{14}$	1,2,4,5-Tetramethylbenzene	952
		C_7H_6O	Benzaldehyde	$C_{10}H_8$	Naphthalene	953
		C_7H_8	Toluene	C_7H_{16}	Heptane	954
		C_7H_8O	2-Methylphenol	$C_{10}H_8$	Naphthalene	955

C_6H_6O	Phenol	C_7H_8O	3-Methylphenol	$C_{10}H_8$	Naphthalene	956
		C_7H_8O	4-Methylphenol	$C_{10}H_8$	Naphthalene	957
$C_6H_6O_2$	1,2-Dihydroxybenzene <Pyrocatechol>	C_7H_8O	4-Methylphenol	$C_7H_8O_2$	p-Methoxyphenol	958
$C_6H_{12}O$	Cyclohexanol	$C_4H_{10}O_3$	Diethylene glycol	$C_6H_{10}O$	Cyclohexanone	959
		$C_6H_{12}O$	2-Hexanone	C_9H_{20}	Nonane	960–962
		C_8H_{10}	o-Xylene	C_9H_{20}	Nonane	963–965
$C_6H_{14}O$	4-Methyl-2-pentanol	C_6H_6	Benzene	C_6H_{12}	Cyclohexane	966
C_7H_8O	Benzyl alcohol	C_7H_7Cl	Benzyl chloride	$C_9H_{10}O_2$	Acetic acid benzyl ester	967, 968
C_7H_8O	2-Methylphenol	C_6H_7N	Aniline	$C_{10}H_{14}$	1,2,4,5-Tetramethyl-benzene	969
		C_7H_5N	Benzonitrile	$C_{10}H_8$	Naphthalene	970
		$C_8H_{10}O$	2,6-Dimethyl-phenol	$C_9H_{12}O$	2,4,6-Trimethylphenol	971, 972
C_7H_8O	3-Methylphenol	C_7H_5N	Benzonitrile	$C_{10}H_8$	Naphthalene	973
		C_9H_7N	Isoquinoline	C_9H_{12}	1,2,4-Trimethylbenzene	974
		C_9H_7N	Isoquinoline	$C_{10}H_8$	Naphthalene	975
		C_9H_7N	Quinoline	C_9H_{12}	1,2,4-Trimethylbenzene	976
		C_9H_7N	Quinoline	$C_{10}H_8$	Naphthalene	977, 978
		C_9H_7N	Quinoline	$C_{10}H_{12}$	1,2,3,4-Tetrahydro-naphthalene	979–981
		C_9H_8	Indene	$C_{10}H_8$	Naphthalene	982
		C_9H_{12}	1,2,4-Trimethyl-benzene	$C_{10}H_8$	Naphthalene	983
$C_8H_{18}O$	1-Octanol	C_3H_7NO	N,N-Dimethyl-formamide (DMF)	$C_{10}H_{22}$	Decane	984
		$C_7H_8O_2$	2-Methoxyphenol	$C_8H_{10}O_2$	1,2-Dimethoxybenzene	985–987
$C_{12}H_{26}O$	1-Dodecanol	C_3H_7NO	N,N-Dimethyl-formamide (DMF)	$C_{10}H_{22}$	Decane	988

Benzyl alcohol	C_7H_8O	Acetic acid benzyl ester	$C_9H_{10}O_2$	Benzyl chloride	C_7H_7Cl	967, 968
Cyclohexanol	$C_6H_{12}O$	Cyclohexanone	$C_6H_{10}O$	Diethylene glycol	$C_4H_{10}O_3$	959
		2-Hexanone	$C_6H_{12}O$	Nonane	C_9H_{20}	960–962
		Nonane	C_9H_{20}	o-Xylene	C_8H_{10}	963–965
1,2-Dihydroxybenzene <Pyrocatechol>	$C_6H_6O_2$	p-Methoxyphenol	$C_7H_8O_2$	4-Methylphenol	C_7H_8O	958
2,2-Dimethyl-1-propanol	$C_5H_{12}O$	3,3-Dimethyl-2-butanone	$C_6H_{12}O$	Methyl tert-butyl ether (MTBE)	$C_5H_{12}O$	915–917
1-Dodecanol	$C_{12}H_{26}O$	Decane	$C_{10}H_{22}$	N,N-Dimethyl-formamide (DMF)	C_3H_7NO	988
3-Methyl-1-butanol	$C_5H_{12}O$	Acetic acid butyl ester	$C_6H_{12}O_2$	Ethylbenzene	C_8H_{10}	920, 921
		Cyclohexanone	$C_6H_{10}O$	1-Pentanol	$C_5H_{12}O$	919
		tert-Pentanol	$C_5H_{12}O$	1-Pentanol	$C_5H_{12}O$	918
3-Methyl-2-butanol	$C_5H_{12}O$	Methyl isopropyl ketone	$C_5H_{10}O$	2-Methylpentane	C_6H_{14}	922, 923
2-Methyl-3-butyn-2-ol	C_5H_8O	2-Methyl-3-buten-2-ol	$C_5H_{10}O$	tert-Pentanol	$C_5H_{12}O$	914
4-Methyl-2-pentanol	$C_6H_{14}O$	Benzene	C_6H_6	Cyclohexane	C_6H_{12}	966
2-Methylphenol	C_7H_8O	Aniline	C_6H_7N	1,2,4,5-Tetramethyl-benzene	$C_{10}H_{14}$	969
		Benzonitrile	C_7H_5N	Naphthalene	$C_{10}H_8$	970
		2,6-Dimethylphenol	$C_8H_{10}O$	2,4,6-Trimethylphenol	$C_9H_{12}O$	971, 972
3-Methylphenol	C_7H_8O	Benzonitrile	C_7H_5N	Naphthalene	$C_{10}H_8$	973
		Indene	C_9H_8	Naphthalene	$C_{10}H_8$	982
		Isoquinoline	C_9H_7N	Naphthalene	$C_{10}H_8$	975
		Isoquinoline	C_9H_7N	1,2,4-Trimethylbenzene	C_9H_{12}	974
		Naphthalene	$C_{10}H_8$	Quinoline	C_9H_7N	977, 978
		Naphthalene	$C_{10}H_8$	1,2,4-Trimethylbenzene	C_9H_{12}	983

3-Methylphenol	C_7H_8O	Quinoline	C_9H_7N	1,2,3,4-Tetrahydro-naphthalene	$C_{10}H_{12}$	979–981
		Quinoline	C_9H_7N	1,2,4-Trimethylbenzene	C_9H_{12}	976
1-Octanol	$C_8H_{18}O$	Decane	$C_{10}H_{22}$	N,N-Dimethyl-formamide (DMF)	C_3H_7NO	984
		1,2-Dimethoxy-benzene	$C_8H_{10}O_2$	2-Methoxyphenol	$C_7H_8O_2$	985–987
tert-Pentanol	$C_5H_{12}O$	Acetic acid	$C_2H_4O_2$	Acetic acid butyl ester	$C_6H_{12}O_2$	944
		Benzene	C_6H_6	Cyclohexane	C_6H_{12}	945
		Hexane	C_6H_{14}	Methyl tert-amyl ether (TAME)	$C_6H_{14}O$	946
1-Pentanol	$C_5H_{12}O$	Acetic acid 3-methylbutyl ester	$C_7H_{14}O_2$	tert-Pentanol	$C_5H_{12}O$	924
		Acetophenone	C_8H_8O	Cyclohexanone	$C_6H_{10}O$	927
		Benzene	C_6H_6	Cyclohexane	C_6H_{12}	925, 926
		Dibutyl ether	$C_8H_{18}O$	Nonane	C_9H_{20}	939–942
		2-Hexanone	$C_6H_{12}O$	Methoxybenzene	C_7H_8O	928–931
		2-Hexanone	$C_6H_{12}O$	Nonane	C_9H_{20}	932–934
		Methoxybenzene	C_7H_8O	Nonane	C_9H_{20}	935–938
3-Pentanol	$C_5H_{12}O$	2-Pentanone	$C_5H_{10}O$	3-Pentanone	$C_5H_{10}O$	943
Phenol	C_6H_6O	Acetone	C_3H_6O	Decalin <Isomer not specified>	$C_{10}H_{18}$	950
		Acetone	C_3H_6O	Isopropylbenzene	C_9H_{12}	947–949
		Aniline	C_6H_7N	1,2,4,5-Tetramethyl-benzene	$C_{10}H_{14}$	952
		Aniline	C_6H_7N	1,2,4-Trimethylbenzene	C_9H_{12}	951
		Benzaldehyde	C_7H_6O	Naphthalene	$C_{10}H_8$	953
		Heptane	C_7H_{16}	Toluene	C_7H_8	954
		2-Methylphenol	C_7H_8O	Naphthalene	$C_{10}H_8$	955
		3-Methylphenol	C_7H_8O	Naphthalene	$C_{10}H_8$	956
		4-Methylphenol	C_7H_8O	Naphthalene	$C_{10}H_8$	957