Benzyl alcohol

Other names:	(Hydroxymethyl)benzene
	.alpha.-hydroxytoluene
	.alpha.-toluenol
	BENZAL ALCOHOL
	BENZENEMETHANOL
	Bentalol
	Benzenecarbinol
	Benzenmethanol
	Benzoyl alcohol
	Benzyl Alkohol
	Benzylic alcohol
	Hydroxytoluene
	Methanol benzene
	Methanol, phenyl-
	NCI-C06111
	NSC 8044
	PHENYLMETHANOL
	Phenylcarbinol
	Phenylmethyl alcohol
	«alpha»-Hydroxytoluene
	«alpha»-Toluenol
	Â«alphaÂ»-Hydroxytoluene
	Â«alphaÂ»-Toluenol
Inchi:	InChI=1S/C7H8O/c8-6-7-4-2-1-3-5-7/h1-5,8H,6H2
InchiKey:	WVDDGKGOMKODPV-UHFFFAOYSA-N
Formula:	C7H8O
SMILES:	OCc1ccccc1
Mol. weight [g/mol]:	108.14
CAS:	100-51-6

Physical Properties

Property code	Value	Unit	Source
affp	778.30	kJ/mol	NIST Webbook
aigt	709.26	K	KDB
basg	748.00	kJ/mol	NIST Webbook
chl	-3731.00	kJ/mol	NIST Webbook

chl	-3724.00	kJ/mol	NIST Webbook
chl	-3736.90	kJ/mol	NIST Webbook
chl	-3723.00	kJ/mol	NIST Webbook
chl	-3743.00 ± 2.80	kJ/mol	NIST Webbook
dm	1.70	debye	KDB
fpc	377.59	K	KDB
fpo	373.71	K	KDB
gf	-16.35	kJ/mol	Joback Method
hf	-100.70	kJ/mol	NIST Webbook
hf	-94.08	kJ/mol	KDB
hf	-106.70	kJ/mol	NIST Webbook
hf	-113.70	kJ/mol	NIST Webbook
hf	-94.60 ± 3.00	kJ/mol	NIST Webbook
hfl	-154.90 ± 3.00	kJ/mol	NIST Webbook
hfl	-167.00	kJ/mol	NIST Webbook
hfl	-174.00	kJ/mol	NIST Webbook
hfl	-161.00 ± 1.30	kJ/mol	NIST Webbook
hfus	12.02	kJ/mol	Joback Method
hvap	63.00 ± 2.20	kJ/mol	NIST Webbook
hvap	65.50 ± 0.40	kJ/mol	NIST Webbook
hvap	60.30	kJ/mol	NIST Webbook
hvap	62.50 ± 0.30	kJ/mol	NIST Webbook
hvap	60.30 ± 0.40	kJ/mol	NIST Webbook
hvap	60.29 ± 0.42	kJ/mol	NIST Webbook
hvap	62.10 ± 0.30	kJ/mol	NIST Webbook
hvap	64.80 ± 0.60	kJ/mol	NIST Webbook
hvap	69.50	kJ/mol	NIST Webbook
ie	9.53	eV	NIST Webbook
ie	9.23	eV	NIST Webbook
ie	9.23	eV	NIST Webbook
ie	8.26 ± 0.05	eV	NIST Webbook
ie	9.00 ± 0.10	eV	NIST Webbook
ie	9.11	eV	NIST Webbook
ie	8.37	eV	NIST Webbook
ie	9.14 ± 0.05	eV	NIST Webbook
log10ws	-0.40		Aqueous Solubility Prediction Method
log10ws	-0.40		Estimated Solubility Method
logp	1.179		Crippen Method
mcvol	91.600	ml/mol	McGowan Method
nfpaf	%!d(float64=1)		KDB
nfpah	%!d(float64=2)		KDB
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ripol	1894.00	NIST Webbook
ripol	1880.00	NIST Webbook
ripol	1851.00	NIST Webbook
ripol	1851.00	NIST Webbook
ripol	1871.00	NIST Webbook
ripol	1858.00	NIST Webbook
ripol	1856.00	NIST Webbook
ripol	1861.00	NIST Webbook
ripol	1865.00	NIST Webbook
ripol	1861.00	NIST Webbook
ripol	1905.00	NIST Webbook
ripol	1875.00	NIST Webbook
ripol	1882.00	NIST Webbook
ripol	1882.00	NIST Webbook
ripol	1869.00	NIST Webbook
ripol	1898.00	NIST Webbook
ripol	1868.00	NIST Webbook
ripol	1915.00	NIST Webbook
ripol	1890.00	NIST Webbook
ripol	1837.00	NIST Webbook
ripol	1837.00	NIST Webbook
ripol	1837.00	NIST Webbook
ripol	1837.00	NIST Webbook
ripol	1869.00	NIST Webbook
ripol	1869.00	NIST Webbook
ripol	1866.00	NIST Webbook

ripol	1871.00	NIST Webbook
ripol	1874.00	NIST Webbook
ripol	1859.00	NIST Webbook
ripol	1835.00	NIST Webbook
ripol	1837.00	NIST Webbook
ripol	1862.00	NIST Webbook
ripol	1867.00	NIST Webbook
ripol	1848.00	NIST Webbook
ripol	1867.00	NIST Webbook
ripol	1864.00	NIST Webbook
ripol	1876.00	NIST Webbook
ripol	1872.30	NIST Webbook
ripol	1864.00	NIST Webbook
ripol	1853.00	NIST Webbook
ripol	1846.00	NIST Webbook
ripol	1853.00	NIST Webbook
ripol	1846.00	NIST Webbook
ripol	1841.00	NIST Webbook
ripol	1864.00	NIST Webbook
ripol	1852.00	NIST Webbook
ripol	1868.00	NIST Webbook
ripol	1837.00	NIST Webbook
ripol	1867.00	NIST Webbook
ripol	1870.00	NIST Webbook
ripol	1870.00	NIST Webbook
ripol	1849.00	NIST Webbook
ripol	1885.00	NIST Webbook
ripol	1885.00	NIST Webbook
ripol	1875.00	NIST Webbook
ripol	1886.00	NIST Webbook
ripol	1868.00	NIST Webbook
ripol	1868.00	NIST Webbook
ripol	1893.00	NIST Webbook
ripol	1907.00	NIST Webbook
ripol	1828.00	NIST Webbook
ripol	1828.00	NIST Webbook
ripol	1826.00	NIST Webbook
ripol	1825.00	NIST Webbook
ripol	1882.00	NIST Webbook
ripol	1882.00	NIST Webbook
ripol	1890.00	NIST Webbook
ripol	1883.00	NIST Webbook
ripol	1870.00	NIST Webbook
ripol	1870.00	NIST Webbook

ripol	1864.00	NIST Webbook
ripol	1844.00	NIST Webbook
ripol	1869.00	NIST Webbook
ripol	1864.00	NIST Webbook
ripol	1876.00	NIST Webbook
ripol	1896.00	NIST Webbook
ripol	1896.00	NIST Webbook
ripol	1877.00	NIST Webbook
ripol	1902.00	NIST Webbook
ripol	1876.00	NIST Webbook
ripol	1852.00	NIST Webbook
ripol	1823.00	NIST Webbook
ripol	1886.00	NIST Webbook
ripol	1866.00	NIST Webbook
ripol	1821.00	NIST Webbook
ripol	1864.00	NIST Webbook
ripol	1869.00	NIST Webbook
ripol	1866.00	NIST Webbook
ripol	1837.00	NIST Webbook
ripol	1854.00	NIST Webbook
ripol	1881.00	NIST Webbook
ripol	1857.00	NIST Webbook
ripol	1844.00	NIST Webbook
ripol	1898.00	NIST Webbook
ripol	1886.00	NIST Webbook
ripol	1895.00	NIST Webbook
ripol	1834.00	NIST Webbook
ripol	1844.00	NIST Webbook
ripol	1864.00	NIST Webbook
ripol	1889.00	NIST Webbook
ripol	1904.00	NIST Webbook
ripol	1884.00	NIST Webbook
ripol	1880.00	NIST Webbook
ripol	1879.00	NIST Webbook
ripol	1836.00	NIST Webbook
ripol	1880.00	NIST Webbook
ripol	1879.00	NIST Webbook
ripol	1875.00	NIST Webbook
ripol	1888.00	NIST Webbook
ripol	1887.00	NIST Webbook
ripol	1823.00	NIST Webbook
ripol	1821.00	NIST Webbook
ripol	1830.00	NIST Webbook
ripol	1830.00	NIST Webbook

ripol	1823.00		NIST Webbook
ripol	1822.00		NIST Webbook
ripol	1822.00		NIST Webbook
ripol	1834.00		NIST Webbook
ripol	1822.00		NIST Webbook
ripol	1886.00		NIST Webbook
ripol	1885.00		NIST Webbook
ripol	1880.00		NIST Webbook
ripol	1861.00		NIST Webbook
ripol	1877.00		NIST Webbook
ripol	1861.00		NIST Webbook
ripol	1846.00		NIST Webbook
ripol	1887.00		NIST Webbook
ripol	1875.00		NIST Webbook
ripol	1870.00		NIST Webbook
ripol	1857.00		NIST Webbook
ripol	1846.00		NIST Webbook
ripol	1834.00		NIST Webbook
ripol	1895.00		NIST Webbook
ripol	1882.00		NIST Webbook
ripol	1879.00		NIST Webbook
ripol	1860.00		NIST Webbook
sl	216.70	J/mol×K	NIST Webbook
tb	478.46	K	KDB
tc	713.00	K	Vapor-liquid critical point measurements of fifteen compounds by the pulse-heating method
tc	715.00	K	KDB
tf	258.10	K	(Solid + liquid) equilibrium phase diagrams in binary mixtures containing terpenes: New experimental data and analysis of several modelling strategies with modified UNIFAC (Dortmund) and PC-SAFT equation of state
tf	258.10	K	Aqueous Solubility Prediction Method
tf	257.90	K	KDB
vc	0.339	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	182.35	J/mol×K	478.42	Joback Method
cpg	232.07	J/mol×K	678.50	Joback Method
cpg	217.53	J/mol×K	611.81	Joback Method
cpg	209.53	J/mol×K	578.46	Joback Method
cpg	191.96	J/mol×K	511.77	Joback Method
cpg	225.03	J/mol×K	645.15	Joback Method
cpg	201.02	J/mol×K	545.11	Joback Method
cpl	215.90	J/mol×K	298.50	NIST Webbook
cpl	217.86	J/mol×K	298.10	NIST Webbook
cpl	215.94	J/mol×K	298.15	NIST Webbook
cpl	220.50	J/mol×K	298.00	NIST Webbook
cpl	223.60	J/mol×K	307.50	NIST Webbook
dvisc	0.0040100	Pa×s	308.15	Densities, Viscosities, and Refractive Properties of the Binary Mixtures of the Amino Acid Ionic Liquid [bmim][Ala] with Methanol or Benzylalcohol at T = (298.15 to 313.15) K
dvisc	0.0035220	Pa×s	313.15	Densities, Viscosities, and Refractive Properties of the Binary Mixtures of the Amino Acid Ionic Liquid [bmim][Ala] with Methanol or Benzylalcohol at T = (298.15 to 313.15) K
dvisc	0.0046890	Pa×s	303.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone
dvisc	0.0040580	Pa×s	308.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone
dvisc	0.0027470	Pa×s	323.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone

dvisc	0.0035310	Pa×s	313.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone
dvisc	0.0055500	Pa×s	298.15	Densities, Viscosities, and Refractive Properties of the Binary Mixtures of the Amino Acid Ionic Liquid [bmim][Ala] with Methanol or Benzylalcohol at T = (298.15 to 313.15) K
dvisc	0.0041250	Pa×s	308.15	Excess Enthalpies, Heat Capacities, Densities, Viscosities and Refractive Indices of Dimethyl Sulfoxide + Three Aryl Alcohols at 308.15 K and Atmospheric Pressure
dvisc	0.0052110	Pa×s	298.15	Excess Enthalpies, Heat Capacities, Densities, Viscosities and Refractive Indices of Dimethyl Sulfoxide + Three Aryl Alcohols at 308.15 K and Atmospheric Pressure
dvisc	0.0035200	Pa×s	313.15	Densities and Viscosities of Binary Mixtures of N,N-Dimethylformamide with Benzyl Alcohol and Acetophenone at (298.15, 303.15, 308.15, and 313.15) K

dvisc	0.0040040	Pa×s	308.15	Densities and Viscosities of Binary Mixtures of N,N-Dimethylformamide with Benzyl Alcohol and Acetophenone at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0046700	Pa×s	303.15	Densities and Viscosities of Binary Mixtures of N,N-Dimethylformamide with Benzyl Alcohol and Acetophenone at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0051600	Pa×s	298.15	Densities and Viscosities of Binary Mixtures of N,N-Dimethylformamide with Benzyl Alcohol and Acetophenone at (298.15, 303.15, 308.15, and 313.15) K
dvisc	0.0046750	Pa×s	303.15	Densities, Viscosities, and Refractive Properties of the Binary Mixtures of the Amino Acid Ionic Liquid [bmim][Ala] with Methanol or Benzylalcohol at T = (298.15 to 313.15) K
dvisc	0.0031030	Pa×s	318.15	Densities and Viscosities of the Binary Mixtures of Phenylmethanol with 2-Butanone
hfust	8.79	kJ/mol	257.60	NIST Webbook
hfust	8.79	kJ/mol	257.60	NIST Webbook
hfust	8.97	kJ/mol	257.60	NIST Webbook
hvapt	66.20	kJ/mol	318.00	NIST Webbook
hvapt	54.60	kJ/mol	479.00	NIST Webbook
hvapt	61.50	kJ/mol	303.00	NIST Webbook

pvap	0.02	kPa	303.60	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	0.07	kPa	318.60	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	0.10	kPa	323.60	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	0.05	kPa	314.10	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	4.07e-03	kPa	285.90	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers

pvap	5.32e-03	kPa	288.90	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	7.38e-03	kPa	292.10	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	9.83e-03	kPa	295.30	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.01	kPa	298.20	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.02	kPa	301.20	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.02	kPa	300.20	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	0.03	kPa	305.80	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.03	kPa	308.80	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers

pvap	0.04	kPa	311.70	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.05	kPa	314.90	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.07	kPa	318.10	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.08	kPa	321.10	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.01	kPa	298.60	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	0.01	kPa	297.20	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method

pvap	8.90e-03	kPa	294.10	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	6.88e-03	kPa	291.20	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	5.16e-03	kPa	288.20	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	3.68e-03	kPa	285.20	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	2.72e-03	kPa	282.20	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method

pvap	0.02	kPa	302.80	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.02	kPa	303.20	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	3.06e-03	kPa	282.90	Thermochemistry of Benzyl Alcohol: Reaction Equilibria Involving Benzyl Alcohol and tert-Alkyl Ethers
pvap	0.04	kPa	311.20	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	0.03	kPa	308.60	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method

pvap	0.03	kPa	308.10	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	0.05	kPa	313.60	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
pvap	0.02	kPa	305.20	Thermodynamic Properties of Mixtures Containing Ionic Liquids. Activity Coefficients of Ethers and Alcohols in 1-Methyl-3-Ethyl-Imidazolium Bis(trifluoromethyl-sulfonyl) Imide Using the Transpiration Method
rfi	1.53810		298.15	Excess Molar Enthalpies of Benzyl Alcohol + Alkanols (C1-C6) and Their Correlations at 298.15 K and Ambient Pressure
rfi	1.53780		298.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K

rfi	1.53421	308.15	Densities, Viscosities, Refractive Indices, and Surface Tensions for the Ternary Mixtures of 2-Propanol + Benzyl Alcohol + 2-Phenylethanol at T = 308.15 K
rfi	1.53540	303.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K
rfi	1.53180	308.15	Density, Viscosity, Refractive Index, and Speed of Sound in the Binary Mixtures of Ethyl Chloroacetate + Cyclohexanone, + Chlorobenzene, + Bromobenzene, or + Benzyl Alcohol at (298.15, 303.15, and 308.15) K
rfi	1.53770	298.15	Enthalpies of Mixing, Densities, and Refractive Indices for Binary Mixtures of (Anisole or Phenetole) + Three Aryl Alcohols at 308.15 K and at Atmospheric Pressure

rfi	1.53500		308.15	Enthalpies of Mixing, Densities, and Refractive Indices for Binary Mixtures of (Anisole or Phenetole) + Three Aryl Alcohols at 308.15 K and at Atmospheric Pressure	
rhol	1025.67	kg/m3	318.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol	
rhol	1043.53	kg/m3	298.15	Thermodynamics of Mixtures Containing Aromatic Alcohols. 1. Liquid Liquid Equilibria for (Phenylmethanol + Alkane) Systems	
rhol	1033.64	kg/m3	308.50	Excess Molar Enthalpies and Hydrogen Bonding in Binary Mixtures Containing Ethers and Benzyl Alcohol at 308.15 K and Atmospheric Pressure	
rhol	1041.46	kg/m3	298.15	Excess Properties of Binary Mixtures of Esters of Carbonic Acid + Three Aryl Alcohols at 308.15 K	
rhol	1033.70	kg/m3	308.15	Thermodynamic Study of Binary Mixtures Containing Glycols or Polyethylene Glycols + Benzyl Alcohol at 308.15 K	

rhol	1041.46	kg/m3	298.15	Thermodynamic Study of Binary Mixtures Containing Glycols or Polyethylene Glycols + Benzyl Alcohol at 308.15 K	
rhol	1011.30	kg/m3	333.15	Experimental High-Temperature, High-Pressure Density Measurement and Perturbed-Chain Statistical Associating Fluid Theory Modeling of Dimethyl Sulfoxide, Isoamyl Acetate, and Benzyl Alcohol	
rhol	1030.00	kg/m3	313.15	Experimental High-Temperature, High-Pressure Density Measurement and Perturbed-Chain Statistical Associating Fluid Theory Modeling of Dimethyl Sulfoxide, Isoamyl Acetate, and Benzyl Alcohol	
rhol	1041.80	kg/m3	298.15	Experimental High-Temperature, High-Pressure Density Measurement and Perturbed-Chain Statistical Associating Fluid Theory Modeling of Dimethyl Sulfoxide, Isoamyl Acetate, and Benzyl Alcohol	

rhol	1045.60	kg/m3	293.15	Experimental High-Temperature, High-Pressure Density Measurement and Perturbed-Chain Statistical Associating Fluid Theory Modeling of Dimethyl Sulfoxide, Isoamyl Acetate, and Benzyl Alcohol
rhol	1029.71	kg/m3	313.15	The study of excess molar volumes and related properties for binary mixtures containing benzyl alcohol and 1,3-dichloro-2-propanol with vinyl acetate, ethyl acetate and t-butyl acetate at T = 293.15 to 313.15 K and P = 0.087 MPa
rhol	1033.63	kg/m3	308.15	The study of excess molar volumes and related properties for binary mixtures containing benzyl alcohol and 1,3-dichloro-2-propanol with vinyl acetate, ethyl acetate and t-butyl acetate at T = 293.15 to 313.15 K and P = 0.087 MPa
rhol	1037.50	kg/m3	303.15	The study of excess molar volumes and related properties for binary mixtures containing benzyl alcohol and 1,3-dichloro-2-propanol with vinyl acetate, ethyl acetate and t-butyl acetate at T = 293.15 to 313.15 K and P = 0.087 MPa

rhol	1041.38	kg/m3	298.15	The study of excess molar volumes and related properties for binary mixtures containing benzyl alcohol and 1,3-dichloro-2-propanol with vinyl acetate, ethyl acetate and t-butyl acetate at T = 293.15 to 313.15 K and P = 0.087 MPa
rhol	1045.21	kg/m3	293.15	The study of excess molar volumes and related properties for binary mixtures containing benzyl alcohol and 1,3-dichloro-2-propanol with vinyl acetate, ethyl acetate and t-butyl acetate at T = 293.15 to 313.15 K and P = 0.087 MPa
rhol	1029.12	kg/m3	313.15	Effect of chain length of alcohol on thermodynamic properties of their binary mixtures with benzylalcohol
rhol	1033.30	kg/m3	308.15	Effect of chain length of alcohol on thermodynamic properties of their binary mixtures with benzylalcohol
rhol	1037.60	kg/m3	303.15	Effect of chain length of alcohol on thermodynamic properties of their binary mixtures with benzylalcohol
rhol	1041.56	kg/m3	298.15	Effect of chain length of alcohol on thermodynamic properties of their binary mixtures with benzylalcohol

rhol	1025.59	kg/m3	318.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols	
rhol	1029.46	kg/m3	313.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols	
rhol	1033.32	kg/m3	308.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols	
rhol	1037.15	kg/m3	303.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols	
rhol	1041.05	kg/m3	298.15	FT-IR spectroscopic study of excess thermodynamic properties of liquid mixtures containing benzylalcohol with alkoxyalkanols	
rhol	1041.22	kg/m3	298.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol	

rhol	1037.35	kg/m3	303.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol	
rhol	1033.47	kg/m3	308.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol	
rhol	1029.58	kg/m3	313.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol	
rhol	1033.84	kg/m3	308.15	Densities and volumetric properties of binary mixtures of amino acid ionic liquid [bmim][Glu] or [bmim][Gly] with benzylalcohol at T = (298.15 to 313.15) K	
rhol	1041.00	kg/m3	298.00	KDB	
rhol	1041.44	kg/m3	298.15	Thermodynamics of binary mixtures: The effect of substituents in aromatics on their excess properties with benzylalcohol	
rhol	1037.67	kg/m3	303.15	Thermodynamics of binary mixtures: The effect of substituents in aromatics on their excess properties with benzylalcohol	

rhol	1033.75	kg/m3	308.15	Thermodynamics of binary mixtures: The effect of substituents in aromatics on their excess properties with benzylalcohol
rhol	1029.91	kg/m3	313.15	Thermodynamics of binary mixtures: The effect of substituents in aromatics on their excess properties with benzylalcohol
rhol	1037.18	kg/m3	303.15	Study on thermo physical properties of binary mixture containing aromatic alcohol with aromatic, substituted aromatic amines at different temperatures interms of FT-IR, 1H NMR spectroscopic and DFT method
rhol	1033.45	kg/m3	308.15	Study on thermo physical properties of binary mixture containing aromatic alcohol with aromatic, substituted aromatic amines at different temperatures interms of FT-IR, 1H NMR spectroscopic and DFT method
rhol	1029.36	kg/m3	313.15	Study on thermo physical properties of binary mixture containing aromatic alcohol with aromatic, substituted aromatic amines at different temperatures interms of FT-IR, 1H NMR spectroscopic and DFT method

rhol	1025.57	kg/m3	318.15	Study on thermo physical properties of binary mixture containing aromatic alcohol with aromatic, substituted aromatic amines at different temperatures interms of FT-IR, 1H NMR spectroscopic and DFT method
rhol	1021.78	kg/m3	323.15	Study on thermo physical properties of binary mixture containing aromatic alcohol with aromatic, substituted aromatic amines at different temperatures interms of FT-IR, 1H NMR spectroscopic and DFT method
rhol	1044.85	kg/m3	298.15	Densities and excess volumes of binary mixtures of the ionic liquid 1-butyl-3-methylimidazolium hexafluorophosphate with aromatic compound at T = (298.15 to 313.15) K
rhol	1041.64	kg/m3	298.15	Densities and volumetric properties of binary mixtures of amino acid ionic liquid [bmim][Glu] or [bmim][Gly] with benzylalcohol at T = (298.15 to 313.15) K
rhol	1037.42	kg/m3	303.15	Densities and volumetric properties of binary mixtures of amino acid ionic liquid [bmim][Glu] or [bmim][Gly] with benzylalcohol at T = (298.15 to 313.15) K

rhol	1021.75	kg/m3	323.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol
rhol	1030.43	kg/m3	313.15	Densities and volumetric properties of binary mixtures of amino acid ionic liquid [bmim][Glu] or [bmim][Gly] with benzylalcohol at T = (298.15 to 313.15) K
sfust	34.82	J/mol×K	257.60	NIST Webbook
srf	0.04	N/m	318.15	Densities, Viscosities, Refractive Indexes, and Surface Tensions for Binary Mixtures of 2-Propanol + Benzyl Alcohol, + 2-Phenylethanol and Benzyl Alcohol + 2-Phenylethanol at T) (298.15, 308.15, and 318.15) K
srf	0.04	N/m	298.15	Densities, Viscosities, Refractive Indexes, and Surface Tensions for Binary Mixtures of 2-Propanol + Benzyl Alcohol, + 2-Phenylethanol and Benzyl Alcohol + 2-Phenylethanol at T) (298.15, 308.15, and 318.15) K
srf	0.04	N/m	323.15	Densities, Viscosities, Refractive Indexes, and Surface Tensions for Mixtures of Ethanol, Benzyl Acetate, and Benzyl Alcohol

srf	0.04	N/m	313.15	Densities, Viscosities, Refractive Indexes, and Surface Tensions for Mixtures of Ethanol, Benzyl Acetate, and Benzyl Alcohol
srf	0.04	N/m	303.15	Densities, Viscosities, Refractive Indexes, and Surface Tensions for Mixtures of Ethanol, Benzyl Acetate, and Benzyl Alcohol
srf	0.04	N/m	293.15	Densities, Viscosities, Refractive Indexes, and Surface Tensions for Mixtures of Ethanol, Benzyl Acetate, and Benzyl Alcohol
srf	0.04	N/m	323.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol
srf	0.04	N/m	318.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol
srf	0.04	N/m	313.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol
srf	0.04	N/m	308.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol
srf	0.04	N/m	303.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol
srf	0.04	N/m	298.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol
srf	0.04	N/m	293.15	Surface Properties of Dilute Solutions of Alkanes in Benzyl Alcohol

srf	0.04	N/m	323.15	Surface Tension of Dilute Solutions of Linear Alcohols in Benzyl Alcohol
srf	0.04	N/m	318.15	Surface Tension of Dilute Solutions of Linear Alcohols in Benzyl Alcohol
srf	0.04	N/m	313.15	Surface Tension of Dilute Solutions of Linear Alcohols in Benzyl Alcohol
srf	0.04	N/m	308.15	Surface Tension of Dilute Solutions of Linear Alcohols in Benzyl Alcohol
srf	0.04	N/m	303.15	Surface Tension of Dilute Solutions of Linear Alcohols in Benzyl Alcohol
srf	0.04	N/m	298.15	Surface Tension of Dilute Solutions of Linear Alcohols in Benzyl Alcohol
srf	0.04	N/m	293.15	Surface Tension of Dilute Solutions of Linear Alcohols in Benzyl Alcohol
srf	0.04	N/m	323.15	Equilibrium Surface Tensions of Benzyl Alcohol + Ethylene Glycol Mixtures
srf	0.04	N/m	318.15	Equilibrium Surface Tensions of Benzyl Alcohol + Ethylene Glycol Mixtures
srf	0.04	N/m	308.15	Equilibrium Surface Tensions of Benzyl Alcohol + Ethylene Glycol Mixtures
srf	0.04	N/m	303.15	Equilibrium Surface Tensions of Benzyl Alcohol + Ethylene Glycol Mixtures
srf	0.04	N/m	298.15	Equilibrium Surface Tensions of Benzyl Alcohol + Ethylene Glycol Mixtures

srf	0.04	N/m	293.15	Equilibrium Surface Tensions of Benzyl Alcohol + Ethylene Glycol Mixtures
srf	0.04	N/m	308.15	Densities, Viscosities, Refractive Indexes, and Surface Tensions for Binary Mixtures of 2-Propanol + Benzyl Alcohol, + 2-Phenylethanol and Benzyl Alcohol + 2-Phenylethanol at T) (298.15, 308.15, and 318.15) K
srf	0.04	N/m	313.15	Equilibrium Surface Tensions of Benzyl Alcohol + Ethylene Glycol Mixtures

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	366.20	K	1.30	NIST Webbook
tbrp	366.00	K	1.30	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.62136e+01
Coeff. B	-4.73989e+03
Coeff. C	-6.92220e+01
Temperature range (K), min.	366.84
Temperature range (K), max.	503.99

Information	Value

Property code	pvap
Equation	ln(Pvp) = A + B/T + C*ln(T) + D*T^2
Coeff. A	8.81942e+01
Coeff. B	-1.07272e+04
Coeff. C	-9.93247e+00
Coeff. D	8.07990e-07
Temperature range (K), min.	303.00
Temperature range (K), max.	711.66

Datasets

Mass density, kg/m3

Temperature, K - Liquid	Pressure, kPa - Liquid	Mass density, kg/m3 - Liquid
298.15	81.50	1042.1

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Legend

affp:	Proton affinity
aigt:	Autoignition Temperature

basg:	Gas basicity
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dm:	Dipole Moment
dvisc:	Dynamic viscosity
fpc:	Flash Point (Closed Cup Method)
fpo:	Flash Point (Open Cup Method)
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
nfpaf:	NFPA Fire Rating
nfpah:	NFPA Health Rating
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rhol:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
sfust:	Entropy of fusion at a given temperature
sl:	Liquid phase molar entropy at standard conditions
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume