

Phenylethyl Alcohol

Other names:

.beta.-phenylethyl alcohol
1-Phenyl-2-ethanol
1-phenyl-2-ethanol («beta»-phenylethanol)
1-phenyl-2-ethanol (Â«betaÂ»-phenylethanol)
2-PEA
2-PHENYLETHYL ALCOHOL
2-Phenethanol
2-Phenethyl alcohol
2-Phenylethanol
2-Phenylethanol
BETA-PHENYLETHYL ALCOHOL
Benzeneethanol
Benzeneethanol (2-Phenylethanol)
Benzenethanol
Benzyl Carbinol
Ethanol, 2-phenyl-
Hydroxyethylbenzene
Mellol
Methanol, benzyl-
PEA
Phenethanol
Phenethyl alcohol
Phenylethanol
Phenylethyl, beta- alcohol
«beta»-Fenethylalkohol
«beta»-Fenylethanol
«beta»-Hydroxyethylbenzene
«beta»-P.E.A.
«beta»-PEA
«beta»-Phenethanol
«beta»-Phenethyl alcohol
«beta»-Phenylethanol
«beta»-Phenylethyl alcohol
Â«betaÂ»-Fenethylalkohol
Â«betaÂ»-Fenylethanol
Â«betaÂ»-Hydroxyethylbenzene
Â«betaÂ»-P.E.A.
Â«betaÂ»-PEA
Â«betaÂ»-Phenethanol
Â«betaÂ»-Phenethyl alcohol

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

Â«betaÂ»-Phenylethanol

Â«betaÂ»-Phenylethyl alcohol

InChI=1S/C8H10O/c9-7-6-8-4-2-1-3-5-8/h1-5,9H,6-7H2

WRMNZCZEMHIOCP-UHFFFAOYSA-N

C8H10O

OCCc1ccccc1

122.16

60-12-8

Physical Properties

Property code	Value	Unit	Source
gf	-7.93	kJ/mol	Joback Method
hf	-124.15	kJ/mol	Joback Method
hfus	14.61	kJ/mol	Joback Method
hvap	52.36	kJ/mol	Joback Method
log10ws	-0.74		Aqueous Solubility Prediction Method
logp	1.221		Crippen Method
mcvol	105.690	ml/mol	McGowan Method
pc	3990.00	kPa	Critical Point and Vapor Pressure Measurements for Seven Compounds by a Low Residence Time Flow Method
pc	3850.00	kPa	Vapor-Liquid Critical Properties of Phenol and (C8 to C10) Phenylalkanols
rinpol	1090.00		NIST Webbook
rinpol	1082.78		NIST Webbook
rinpol	1092.00		NIST Webbook
rinpol	1092.00		NIST Webbook
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ripol	1902.00	NIST Webbook
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ripol	1910.00	NIST Webbook
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ripol	1871.00	NIST Webbook
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ripol	1944.00	NIST Webbook
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ripol	1936.00	NIST Webbook
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ripol	1932.00	NIST Webbook
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ripol	1921.00		NIST Webbook
ripol	1952.00		NIST Webbook
ripol	1890.00		NIST Webbook
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ripol	1866.00		NIST Webbook
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ripol	1932.00		NIST Webbook
ripol	1873.00		NIST Webbook
ripol	1910.50		NIST Webbook
ripol	1925.00		NIST Webbook
ripol	1909.00		NIST Webbook
ripol	1894.00		NIST Webbook
ripol	1906.00		NIST Webbook
ripol	1904.00		NIST Webbook
ripol	1892.00		NIST Webbook
ripol	1874.00		NIST Webbook
ripol	1865.00		NIST Webbook
ripol	1931.00		NIST Webbook
ripol	1896.00		NIST Webbook
ripol	1890.00		NIST Webbook
ripol	1942.00		NIST Webbook
tb	492.90 ± 0.30	K	NIST Webbook
tb	491.40	K	NIST Webbook
tb	492.55 ± 0.40	K	NIST Webbook
tc	698.78	K	Joback Method

tf	246.00	K	Phase equilibrium in binary systems of ionic liquids, or deep eutectic solvents with 2-phenylethanol (PEA), or water
tf	254.00 ± 2.00	K	NIST Webbook
vc	0.395	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	223.55	J/mol×K	501.30	Joback Method
cpg	262.79	J/mol×K	632.95	Joback Method
cpg	253.84	J/mol×K	600.04	Joback Method
cpg	244.34	J/mol×K	567.13	Joback Method
cpg	279.10	J/mol×K	698.78	Joback Method
cpg	234.25	J/mol×K	534.21	Joback Method
cpg	271.20	J/mol×K	665.87	Joback Method
cpl	252.64	J/mol×K	298.15	NIST Webbook
dvisc	0.0052469	Pa×s	306.18	Joback Method
dvisc	0.0018546	Pa×s	345.21	Joback Method
dvisc	0.0008098	Pa×s	384.23	Joback Method
dvisc	0.0004119	Pa×s	423.25	Joback Method
dvisc	0.0002349	Pa×s	462.28	Joback Method
dvisc	0.0201132	Pa×s	267.16	Joback Method
dvisc	0.0001462	Pa×s	501.30	Joback Method
hvapt	55.10	kJ/mol	503.50	NIST Webbook
pvap	0.02	kPa	312.50	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furanaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol

pvap	9.76e-03	kPa	302.50	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.03	kPa	316.60	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	4.82e-03	kPa	295.10	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	3.99e-03	kPa	292.70	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	2.85e-03	kPa	289.70	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol

pvap	2.51e-03	kPa	287.80	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.05	kPa	322.70	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.05	kPa	322.70	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.05	kPa	322.80	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.07	kPa	327.80	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol

pvap	0.10	kPa	332.80	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.14	kPa	337.90	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.21	kPa	342.90	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.28	kPa	348.10	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.38	kPa	353.20	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol

pvap	0.52	kPa	358.30	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.02	kPa	308.20	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	0.69	kPa	363.30	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
pvap	95.30	kPa	489.79	Activity Coefficients and Excess Gibbs Energies for Binary Mixtures of N-Methyl-2-pyrrolidone with Some Substituted Ethanols
pvap	6.26e-03	kPa	297.50	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furandaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol

pvap	0.03	kPa	317.60	Vapor Pressures, Enthalpies of Vaporization, and Limiting Activity Coefficients in Water at 100 deg C of 2-Furaldehyde, Benzaldehyde, Phenylethanal, and 2-Phenylethanol
rfi	1.52670		308.15	Excess Enthalpies, Heat Capacities, Densities, Viscosities and Refractive Indices of Dimethyl Sulfoxide + Three Aryl Alcohols at 308.15 K and Atmospheric Pressure
rfi	1.53210		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	1.52690		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
rfi	1.52852		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

rhoI	997.08	kg/m3	323.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol	
rhoI	1008.61	kg/m3	308.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol	
rhoI	1008.68	kg/m3	308.15	Excess Molar Enthalpies and Hydrogen Bonding in Binary Mixtures Containing Glycols or Poly(Ethylene Glycols) and 2-Phenylethyl Alcohol at 308.15 K and Atmospheric Pressure	
rhoI	1008.72	kg/m3	308.15	Excess Properties of Binary Mixtures of Esters of Carbonic Acid + Three Aryl Alcohols at 308.15 K	
rhoI	1016.20	kg/m3	298.15	Liquid-Liquid Equilibria for 2-Phenylethan-1-ol + Alkane Systems	
rhoI	1019.00	kg/m3	293.15	Phase equilibrium investigation with ionic liquids and selectivity in separation of 2-phenylethanol from water	
rhoI	1000.94	kg/m3	318.15	Volumetric, acoustic and spectroscopic properties of 3-chloroaniline with substituted ethanols at various temperatures	

rhoI	1004.84	kg/m3	313.15	Volumetric, acoustic and spectroscopic properties of 3-chloroaniline with substituted ethanols at various temperatures
rhoI	1000.93	kg/m3	318.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol
rhoI	1012.34	kg/m3	303.15	Volumetric, acoustic and spectroscopic properties of 3-chloroaniline with substituted ethanols at various temperatures
rhoI	985.48	kg/m3	338.15	Effect of temperature and composition on the density, viscosity, surface tension, and thermodynamic properties of binary mixtures of N-octylisoquinolinium bis{(trifluoromethyl)sulfonyl}imide with alcohols
rhoI	1012.39	kg/m3	303.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol
rhoI	993.29	kg/m3	328.15	Effect of temperature and composition on the density, viscosity, surface tension, and thermodynamic properties of binary mixtures of N-octylisoquinolinium bis{(trifluoromethyl)sulfonyl}imide with alcohols

rhoI	1000.98	kg/m3	318.15	Effect of temperature and composition on the density, viscosity, surface tension, and thermodynamic properties of binary mixtures of N-octylisoquinolinium bis{(trifluoromethyl)sulfonyl}imide with alcohols
rhoI	1008.61	kg/m3	308.15	Effect of temperature and composition on the density, viscosity, surface tension, and thermodynamic properties of binary mixtures of N-octylisoquinolinium bis{(trifluoromethyl)sulfonyl}imide with alcohols
rhoI	1016.16	kg/m3	298.15	Effect of temperature and composition on the density, viscosity, surface tension, and thermodynamic properties of binary mixtures of N-octylisoquinolinium bis{(trifluoromethyl)sulfonyl}imide with alcohols
rhoI	997.16	kg/m3	323.15	Measurement and modeling of volumetric properties and speeds of sound of several mixtures of alcohol liquids containing 1-propanol and 2-propanol at T= (298.15 - 323.15) K and ambient pressure

rhoI	1001.00	kg/m3	318.15	Measurement and modeling of volumetric properties and speeds of sound of several mixtures of alcohol liquids containing 1-propanol and 2-propanol at T=(298.15 - 323.15) K and ambient pressure
rhoI	1004.83	kg/m3	313.15	Measurement and modeling of volumetric properties and speeds of sound of several mixtures of alcohol liquids containing 1-propanol and 2-propanol at T=(298.15 - 323.15) K and ambient pressure
rhoI	1008.62	kg/m3	308.15	Measurement and modeling of volumetric properties and speeds of sound of several mixtures of alcohol liquids containing 1-propanol and 2-propanol at T=(298.15 - 323.15) K and ambient pressure
rhoI	1012.40	kg/m3	303.15	Measurement and modeling of volumetric properties and speeds of sound of several mixtures of alcohol liquids containing 1-propanol and 2-propanol at T=(298.15 - 323.15) K and ambient pressure

rhoI	1016.16	kg/m3	298.15	Measurement and modeling of volumetric properties and speeds of sound of several mixtures of alcohol liquids containing 1-propanol and 2-propanol at T= (298.15 - 323.15) K and ambient pressure
rhoI	1016.14	kg/m3	298.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol
rhoI	1004.75	kg/m3	313.15	Measurement and Modeling of Volumetric Properties and Speeds of Sound of Several Mixtures of Alcohol Liquids Containing Butanediol
rhoI	1008.63	kg/m3	308.15	Volumetric, acoustic and spectroscopic properties of 3-chloroaniline with substituted ethanols at various temperatures
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	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

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	493.20	K	100.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.70642e+01
Coeff. B	-5.69212e+03
Coeff. C	-3.40500e+01
Temperature range (K), min.	373.34
Temperature range (K), max.	518.37

Phase equilibrium in binary systems of ionic liquids, or deep eutectic solvents with 2-phenylbutane and composition effect on the density, viscosity, surface tension and thermodynamic properties Measurement and Modeling of Volatility in Properties and Speeds of Reaction of Several Mixtures of Alcohol bis(trimethylsilyl)butyne diol with alcohols:

<https://www.doi.org/10.1016/j.fluid.2015.10.016>
<https://www.doi.org/10.1016/j.jct.2011.12.003>
<https://www.doi.org/10.1021/je5009334>
<https://www.cerich.org/files/research/kdb/mol/mol880.mol>

Legend

cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rfi:	Refractive Index
rho:	Liquid Density
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
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

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