Cyclopropyl carbinol

Other names:	Cyclopropanemethanol
	Cyclopropanemethyl alcohol
	Cyclopropylcarbinyl alcohol
	Cyclopropylmethanol
	Cyclopropylmethyl alcohol
	Hydroxymethylcyclopropane
Inchi:	InChI=1S/C4H8O/c5-3-4-1-2-4/h4-5H,1-3H2
InchiKey:	GUDMZGLFZNLYEY-UHFFFAOYSA-N
Formula:	C4H8O
SMILES:	OCC1CC1
Mol. weight [g/mol]:	72.11
CAS:	2516-33-8

Physical Properties

Property code	Value	Unit	Source
gf	-93.27	kJ/mol	Joback Method
hf	-205.32	kJ/mol	Joback Method
hfus	8.34	kJ/mol	Joback Method
hvap	41.09	kJ/mol	Joback Method
log10ws	-0.41		Crippen Method
logp	0.389		Crippen Method
mcvol	62.230	ml/mol	McGowan Method
pc	5251.00	kPa	Joback Method
rinpol	648.00		NIST Webbook
rinpol	656.00		NIST Webbook
rinpol	648.00		NIST Webbook
tb	389.84	K	Joback Method
tc	565.69	K	Joback Method
tf	213.60	K	Joback Method
vc	0.235	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	160.14	J/mol×K	565.69	Joback Method
cpg	125.31	J/mol×K	419.15	Joback Method
cpg	133.09	J/mol×K	448.46	Joback Method
cpg	140.43	J/mol×K	477.76	Joback Method
cpg	147.38	J/mol×K	507.07	Joback Method
cpg	153.94	J/mol×K	536.38	Joback Method
cpg	117.09	J/mol×K	389.84	Joback Method
dvisc	0.0006896	Pa×s	360.47	Joback Method
dvisc	0.0010983	Pa×s	331.09	Joback Method
dvisc	0.0019150	Pa×s	301.72	Joback Method
dvisc	0.0037646	Pa×s	272.35	Joback Method
dvisc	0.0087142	Pa×s	242.97	Joback Method
dvisc	0.0004645	Pa×s	389.84	Joback Method
dvisc	0.0254091	Pa×s	213.60	Joback Method
rhol	883.84	kg/m3	328.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K
rhol	879.49	kg/m3	333.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K
rhol	875.07	kg/m3	338.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K

rhol	870.62	kg/m3	343.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K
rhol	888.13	kg/m3	323.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K
rhol	908.96	kg/m3	298.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K
rhol	904.87	kg/m3	303.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K

rhol	900.74	kg/m3	308.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K
rhol	896.59	kg/m3	313.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K
rhol	892.38	kg/m3	318.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K
rhol	888.17	kg/m3	323.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K

rhol	883.86	kg/m3	328.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K
rhol	879.52	kg/m3	333.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K
rhol	875.10	kg/m3	338.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K
rhol	870.62	kg/m3	343.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K

rhol	892.38	kg/m3	318.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K
rhol	896.58	kg/m3	313.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K
rhol	900.74	kg/m3	308.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K
rhol	904.85	kg/m3	303.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K
rhol	908.94	kg/m3	298.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K

rhol	912.99	kg/m3	293.15	Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K
rhol	913.02	kg/m3	293.15	Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	396.70	K	98.40	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2516338&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Densities and Viscosities for the Ternary System of Cyclopropanemethanol (1) + n-Dodecane (2) + Butylcyclohexane (3) and Corresponding Binaries at T = 293.15 343.15 K:	https://www.doi.org/10.1021/acs.jced.7b00201
Densities and Viscosities for the Ternary System of 1,2,3,4-Tetrahydronaphthalene + Isopropylcyclohexane + Cyclopropanemethanol and Corresponding Binaries at T = (293.15 to 343.15) K:	https://www.doi.org/10.1021/acs.jced.8b00662

Legend

cpg:	Ideal gas 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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rhol:	Liquid Density
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume