

Dicyclopropyl carbinol

Other names:	Cyclopropanemethanol, «alpha»-cyclopropyl-dicyclopropylmethanol
Inchi:	InChI=1S/C7H12O/c8-7(5-1-2-5)6-3-4-6/h5-8H,1-4H2
InchiKey:	PIXLZMHERIHLJL-UHFFFAOYSA-N
Formula:	C7H12O
SMILES:	OC(C1CC1)C1CC1
Mol. weight [g/mol]:	112.17
CAS:	14300-33-5

Physical Properties

Property code	Value	Unit	Source
gf	-9.70	kJ/mol	Joback Method
hf	-199.72	kJ/mol	Joback Method
hfus	10.72	kJ/mol	Joback Method
hvap	47.29	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	1.167		Crippen Method
mcvol	93.640	ml/mol	McGowan Method
pc	4271.86	kPa	Joback Method
tb	464.78	K	Joback Method
tc	655.10	K	Joback Method
tf	250.35	K	Joback Method
vc	0.354	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	217.91	J/mol×K	464.78	Joback Method
cpg	230.78	J/mol×K	496.50	Joback Method
cpg	242.82	J/mol×K	528.22	Joback Method
cpg	254.08	J/mol×K	559.94	Joback Method
cpg	264.61	J/mol×K	591.66	Joback Method
cpg	274.47	J/mol×K	623.38	Joback Method
cpg	283.72	J/mol×K	655.10	Joback Method

dvisc	0.0139778	Pa×s	250.35	Joback Method
dvisc	0.0059987	Pa×s	286.09	Joback Method
dvisc	0.0031065	Pa×s	321.83	Joback Method
dvisc	0.0018349	Pa×s	357.56	Joback Method
dvisc	0.0011926	Pa×s	393.30	Joback Method
dvisc	0.0008329	Pa×s	429.04	Joback Method
dvisc	0.0006147	Pa×s	464.78	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14300335&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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