2-Methylcyclopropanemethanol

Other names: Cyclopropanemethanol, 2-methyl-
Inchi: InChI=1S/C5H10O/c1-4-2-5(4)3-6/h4-6H,2-3H2,1H3
InchiKey: SHEINYPABNPRPM-UHFFFAOYSA-N
Formula: C5H10O
SMILES: CC1CC1CO
Mol. weight [g/mol]: 86.13
CAS: 6077-72-1

Physical Properties

Property code	Value	Unit	Source
gf	-92.56	kJ/mol	Joback Method
hf	-246.30	kJ/mol	Joback Method
hfus	12.00	kJ/mol	Joback Method
hvap	43.01	kJ/mol	Joback Method
log10ws	-0.59		Crippen Method
logp	0.635		Crippen Method
mcvol	76.320	ml/mol	McGowan Method
pc	4391.59	kPa	Joback Method
tb	406.20	K	NIST Webbook
tc	582.49	K	Joback Method
tf	220.63	K	Joback Method
vc	0.290	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	154.30	J/mol×K	408.05	Joback Method
cpg	198.08	J/mol×K	553.42	Joback Method
cpg	190.17	J/mol×K	524.34	Joback Method
cpg	181.86	J/mol×K	495.27	Joback Method
cpg	173.12	J/mol×K	466.20	Joback Method
cpg	163.94	J/mol×K	437.12	Joback Method
cpg	205.60	J/mol×K	582.49	Joback Method
dvisc	0.0004267	Pa×s	408.05	Joback Method

dvisc	0.0006072	Pa×s	376.81	Joback Method
dvisc	0.0009212	Pa×s	345.58	Joback Method
dvisc	0.0015181	Pa×s	314.34	Joback Method
dvisc	0.0027935	Pa×s	283.10	Joback Method
dvisc	0.0059796	Pa×s	251.87	Joback Method
dvisc	0.0158779	Pa×s	220.63	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6077721&Units=SI

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