Cyclopropaneethanol

Other names: 2-Cyclopropylethanol
Inchi: InChI=1S/C5H10O/c6-4-3-5-1-2-5/h5-6H,1-4H2
InchiKey: LUNMJRJMSXZSLC-UHFFFAOYSA-N
Formula: C5H10O
SMILES: OCCC1CC1
Mol. weight [g/mol]: 86.13
CAS: 2566-44-1

Physical Properties

Property code	Value	Unit	Source
gf	-84.85	kJ/mol	Joback Method
hf	-225.96	kJ/mol	Joback Method
hfus	10.93	kJ/mol	Joback Method
hvap	43.32	kJ/mol	Joback Method
log10ws	-0.83		Crippen Method
logp	0.779		Crippen Method
mcvol	76.320	ml/mol	McGowan Method
pc	4590.15	kPa	Joback Method
tb	412.72	K	Joback Method
tc	587.68	K	Joback Method
tf	224.87	K	Joback Method
vc	0.291	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	153.42	J/mol×K	412.72	Joback Method
cpg	162.85	J/mol×K	441.88	Joback Method
cpg	171.80	J/mol×K	471.04	Joback Method
cpg	180.27	J/mol×K	500.20	Joback Method
cpg	188.30	J/mol×K	529.36	Joback Method
cpg	195.91	J/mol×K	558.52	Joback Method
cpg	203.11	J/mol×K	587.68	Joback Method
dvisc	0.0242626	Pa×s	224.87	Joback Method

dvisc	0.0082493	Pa×s	256.18	Joback Method
dvisc	0.0035477	Pa×s	287.49	Joback Method
dvisc	0.0018007	Pa×s	318.79	Joback Method
dvisc	0.0010319	Pa×s	350.10	Joback Method
dvisc	0.0006479	Pa×s	381.41	Joback Method
dvisc	0.0004366	Pa×s	412.72	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=C2566441&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