Ethanol, 1-(1-cyclohexenyl)-

Other names: 2-(1-cyclohexenyl)ethanol
Inchi: InChI=1S/C8H14O/c1-7(9)8-5-3-2-4-6-8/h5,7,9H,2-4,6H2,1H3
InchiKey: FAYUSHUTMRYHAD-UHFFFAOYSA-N
Formula: C8H14O
SMILES: CC(O)C1=CCCCC1
Mol. weight [g/mol]: 126.20
CAS: 3197-68-0

Physical Properties

Property code	Value	Unit	Source
gf	-70.29	kJ/mol	Joback Method
hf	-244.99	kJ/mol	Joback Method
hfus	8.64	kJ/mol	Joback Method
hvap	51.38	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	1.868		Crippen Method
mcvol	114.290	ml/mol	McGowan Method
pc	3777.68	kPa	Joback Method
tb	502.54	K	Joback Method
tc	700.57	K	Joback Method
tf	250.64	K	Joback Method
vc	0.416	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.62	J/mol×K	502.54	Joback Method
cpg	271.00	J/mol×K	535.55	Joback Method
cpg	283.67	J/mol×K	568.55	Joback Method
cpg	295.66	J/mol×K	601.56	Joback Method
cpg	306.99	J/mol×K	634.56	Joback Method
cpg	317.68	J/mol×K	667.57	Joback Method
cpg	327.77	J/mol×K	700.57	Joback Method
dvisc	0.0619163	Pa×s	250.64	Joback Method

dvisc	0.0108281	Pa×s	292.62	Joback Method
dvisc	0.0029331	Pa×s	334.61	Joback Method
dvisc	0.0010631	Pa×s	376.59	Joback Method
dvisc	0.0004723	Pa×s	418.57	Joback Method
dvisc	0.0002433	Pa×s	460.56	Joback Method
dvisc	0.0001400	Pa×s	502.54	Joback Method

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=C3197680&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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