

Vinylcyclohexyl ether

Other names:	Cyclohexane, (ethenyloxy)- (vinyloxy)cyclohexane
Inchi:	InChI=1S/C8H14O/c1-2-9-8-6-4-3-5-7-8/h2,8H,1,3-7H2
InchiKey:	VGIYPVFBQRUBDD-UHFFFAOYSA-N
Formula:	C8H14O
SMILES:	C=COC1CCCCC1
Mol. weight [g/mol]:	126.20
CAS:	2182-55-0

Physical Properties

Property code	Value	Unit	Source
gf	23.77	kJ/mol	Joback Method
hf	-160.92	kJ/mol	Joback Method
hfus	8.22	kJ/mol	Joback Method
hvap	35.57	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.479		Crippen Method
mvol	114.290	ml/mol	McGowan Method
pc	3243.03	kPa	Joback Method
tb	420.90 ± 1.50	K	NIST Webbook
tc	625.75	K	Joback Method
tf	207.77	K	Joback Method
vc	0.415	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	223.04	J/mol×K	421.09	Joback Method
cpg	239.44	J/mol×K	455.20	Joback Method
cpg	255.07	J/mol×K	489.31	Joback Method
cpg	269.96	J/mol×K	523.42	Joback Method
cpg	284.12	J/mol×K	557.53	Joback Method
cpg	297.55	J/mol×K	591.64	Joback Method
cpg	310.27	J/mol×K	625.75	Joback Method

dvisc	0.0051010	Paxs	207.77	Joback Method
dvisc	0.0021253	Paxs	243.32	Joback Method
dvisc	0.0011070	Paxs	278.88	Joback Method
dvisc	0.0006682	Paxs	314.43	Joback Method
dvisc	0.0004470	Paxs	349.98	Joback Method
dvisc	0.0003220	Paxs	385.54	Joback Method
dvisc	0.0002451	Paxs	421.09	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C2182550&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

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