cis-1-Butenyl ethyl ether

Other names: 1-Butene, 1-ethoxy-, (Z)
Inchi: InChI=1S/C6H12O/c1-3-5-6-7-4-2/h5-6H,3-4H2,1-2H3/b6-5-
InchiKey: AQTYNINXYJFSHD-WAYWQWQTSA-N
Formula: C6H12O
SMILES: CCC=COCC
Mol. weight [g/mol]: 100.16
CAS: 4884-01-9

Physical Properties

Property code	Value	Unit	Source
gf	-25.14	kJ/mol	Joback Method
hf	-182.17	kJ/mol	Joback Method
hfus	12.69	kJ/mol	Joback Method
hvap	31.32	kJ/mol	Joback Method
log10ws	-1.77		Crippen Method
logp	1.947		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3231.98	kPa	Joback Method
tb	363.26	K	Joback Method
tc	536.57	K	Joback Method
tf	174.53	K	Joback Method
vc	0.369	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	167.70	J/mol×K	363.26	Joback Method
cpg	177.67	J/mol×K	392.14	Joback Method
cpg	187.29	J/mol×K	421.03	Joback Method
cpg	196.56	J/mol×K	449.91	Joback Method
cpg	205.48	J/mol×K	478.80	Joback Method
cpg	214.08	J/mol×K	507.68	Joback Method
cpg	222.34	J/mol×K	536.57	Joback Method
dvisc	0.0032729	Pa×s	174.53	Joback Method

dvisc	0.0013962	Pa×s	205.99	Joback Method
dvisc	0.0007464	Pa×s	237.44	Joback Method
dvisc	0.0004620	Pa×s	268.89	Joback Method
dvisc	0.0003162	Pa×s	300.35	Joback Method
dvisc	0.0002325	Pa×s	331.80	Joback Method
dvisc	0.0001803	Pa×s	363.26	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4884019&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