1-Propene, 1,1'-oxybis-, (Z,Z)-

Other names: Propenyl ether, (Z,Z)-
cis, cis-Dipropenyl ether
Inchi: InChI=1S/C6H10O/c1-3-5-7-6-4-2/h3-6H,1-2H3/b5-3-,6-4-
InchiKey: ZKJNETINGMOHJG-GLIMQPGKSA-N
Formula: C6H10O
SMILES: CC=COC=CC
Mol. weight [g/mol]: 98.14
CAS: 4696-27-9

Physical Properties

Property code	Value	Unit	Source
gf	55.08	kJ/mol	Joback Method
hf	-64.95	kJ/mol	Joback Method
hfus	12.89	kJ/mol	Joback Method
hvap	31.28	kJ/mol	Joback Method
log10ws	-2.12		Crippen Method
logp	2.070		Crippen Method
mcvol	92.670	ml/mol	McGowan Method
pc	3431.89	kPa	Joback Method
tb	367.42	K	Joback Method
tc	550.12	K	Joback Method
tf	169.45	K	Joback Method
vc	0.349	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	153.37	J/mol×K	367.42	Joback Method
cpg	163.10	J/mol×K	397.87	Joback Method
cpg	172.40	J/mol×K	428.32	Joback Method
cpg	181.26	J/mol×K	458.77	Joback Method
cpg	189.72	J/mol×K	489.22	Joback Method
cpg	197.78	J/mol×K	519.67	Joback Method
cpg	205.46	J/mol×K	550.12	Joback Method

dvisc	0.0030234	Pa×s	169.45	Joback Method
dvisc	0.0012125	Pa×s	202.44	Joback Method
dvisc	0.0006282	Pa×s	235.44	Joback Method
dvisc	0.0003826	Pa×s	268.44	Joback Method
dvisc	0.0002597	Pa×s	301.43	Joback Method
dvisc	0.0001903	Pa×s	334.43	Joback Method
dvisc	0.0001474	Pa×s	367.42	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4696279&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