1-PROPENE, 1-(1-METHYLETHOXY)-, (Z)-

Other names: cis-1-Propenyl isopropyl ether
Inchi: InChI=1S/C6H12O/c1-4-5-7-6(2)3/h4-6H,1-3H3
InchiKey: PLGKZYGGZOMZHL-PLNGDYQASA-N
Formula: C6H12O
SMILES: C/C=C\OC(C)C
Mol. weight [g/mol]: 100.16

Physical Properties

Property code	Value	Unit	Source
hf	-215.51	kJ/mol	Cheméo Relay (1.0)
hfus	9.16	kJ/mol	Joback Method
hvap	30.32	kJ/mol	Cheméo Relay (1.0)
ie	8.68	eV	Cheméo Relay (1.0)
log10ws	-1.95		Cheméo Relay (1.0)
logp	1.945		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
tb	343.73	K	Cheméo Relay (1.0)
tf	189.85	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	167.57	J/mol×K	362.82	Joback Method
cpg	223.90	J/mol×K	540.32	Joback Method
cpg	215.40	J/mol×K	510.74	Joback Method
cpg	206.56	J/mol×K	481.15	Joback Method
cpg	197.37	J/mol×K	451.57	Joback Method
cpg	187.81	J/mol×K	421.99	Joback Method
cpg	177.88	J/mol×K	392.40	Joback Method
dvisc	0.0005198	Pa×s	261.18	Joback Method
dvisc	0.0001756	Pa×s	362.82	Joback Method
dvisc	0.0002340	Pa×s	328.94	Joback Method
dvisc	0.0003332	Pa×s	295.06	Joback Method
dvisc	0.0061309	Pa×s	159.53	Joback Method

dvisc	0.0009258	Pa×s	227.29	Joback Method
dvisc	0.0020189	Pa×s	193.41	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4188641&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
tb: Normal Boiling Point Temperature
tf: Normal melting (fusion) point