

1-Propene, 1-(1-methoxyethoxy)-, (Z)-

Inchi:	InChI=1S/C6H12O2/c1-4-5-8-6(2)7-3/h4-6H,1-3H3/b5-4-
InchiKey:	UWBQPRFMSUTUBT-PLNGDYQASA-N
Formula:	C6H12O2
SMILES:	CC=COC(C)OC
Mol. weight [g/mol]:	116.16
CAS:	62322-40-1

Physical Properties

Property code	Value	Unit	Source
gf	-132.58	kJ/mol	Joback Method
hf	-319.67	kJ/mol	Joback Method
hfus	10.35	kJ/mol	Joback Method
hvap	33.34	kJ/mol	Joback Method
log10ws	-1.46		Crippen Method
logp	1.529		Crippen Method
mcvol	102.840	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
tb	385.24	K	Joback Method
tc	563.20	K	Joback Method
tf	181.76	K	Joback Method
vc	0.382	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	189.91	J/molxK	385.24	Joback Method
cpg	199.94	J/molxK	414.90	Joback Method
cpg	209.66	J/molxK	444.56	Joback Method
cpg	219.09	J/molxK	474.22	Joback Method
cpg	228.21	J/molxK	503.88	Joback Method
cpg	237.04	J/molxK	533.54	Joback Method
cpg	245.56	J/molxK	563.20	Joback Method
dvisc	0.0043568	Paxs	181.76	Joback Method
dvisc	0.0016340	Paxs	215.67	Joback Method

dvisc	0.0007999	Paxs	249.59	Joback Method
dvisc	0.0004646	Paxs	283.50	Joback Method
dvisc	0.0003031	Paxs	317.41	Joback Method
dvisc	0.0002147	Paxs	351.33	Joback Method
dvisc	0.0001616	Paxs	385.24	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62322401&Units=SI
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

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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