1-Propene, 1-(1-methoxy-1-methylethoxy)-, (Z)-

Inchi: InChI=1S/C7H14O2/c1-5-6-9-7(2,3)8-4/h5-6H,1-4H3/b6-5-
InchiKey: FEJFIWROECCXPD-WAYWQWQTSA-N
Formula: C7H14O2
SMILES: CC=COC(C)(C)OC
Mol. weight [g/mol]: 130.18
CAS: 62322-41-2

Physical Properties

Property code	Value	Unit	Source
gf	-118.88	kJ/mol	Joback Method
hf	-343.78	kJ/mol	Joback Method
hfus	9.05	kJ/mol	Joback Method
hvap	34.66	kJ/mol	Joback Method
log10ws	-1.88		Crippen Method
logp	1.919		Crippen Method
mcvol	116.930	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
tb	405.33	K	Joback Method
tc	589.82	K	Joback Method
tf	210.45	K	Joback Method
vc	0.432	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.13	J/mol×K	405.33	Joback Method
cpg	241.52	J/mol×K	436.08	Joback Method
cpg	253.38	J/mol×K	466.83	Joback Method
cpg	264.71	J/mol×K	497.58	Joback Method
cpg	275.54	J/mol×K	528.33	Joback Method
cpg	285.88	J/mol×K	559.07	Joback Method
cpg	295.73	J/mol×K	589.82	Joback Method
dvisc	0.0046981	Pa×s	210.45	Joback Method
dvisc	0.0018933	Pa×s	242.93	Joback Method

dvisc	0.0009454	Pa×s	275.41	Joback Method
dvisc	0.0005466	Pa×s	307.89	Joback Method
dvisc	0.0003508	Pa×s	340.37	Joback Method
dvisc	0.0002433	Pa×s	372.85	Joback Method
dvisc	0.0001789	Pa×s	405.33	Joback Method

Sources

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=C62322412&Units=SI
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
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