1-Propene, 1-(methoxymethoxy)-, (Z)-

Inchi: InChI=1S/C5H10O2/c1-3-4-7-5-6-2/h3-4H,5H2,1-2H3/b4-3-
InchiKey: IMJCADJBSWXYAC-ARJAWSKDSA-N
Formula: C5H10O2
SMILES: CC=COCOC
Mol. weight [g/mol]: 102.13
CAS: 62322-39-8

Physical Properties

Property code	Value	Unit	Source
gf	-138.56	kJ/mol	Joback Method
hf	-293.75	kJ/mol	Joback Method
hfus	11.28	kJ/mol	Joback Method
hvap	31.50	kJ/mol	Joback Method
log10ws	-0.93		Crippen Method
logp	1.141		Crippen Method
mcvol	88.750	ml/mol	McGowan Method
pc	3543.08	kPa	Joback Method
tb	362.80	K	Joback Method
tc	537.14	K	Joback Method
tf	185.49	K	Joback Method
vc	0.332	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	155.14	J/mol×K	362.80	Joback Method
cpg	194.17	J/mol×K	508.08	Joback Method
cpg	186.80	J/mol×K	479.03	Joback Method
cpg	179.21	J/mol×K	449.97	Joback Method
cpg	171.40	J/mol×K	420.91	Joback Method
cpg	163.38	J/mol×K	391.86	Joback Method
cpg	201.32	J/mol×K	537.14	Joback Method
dvisc	0.0001653	Pa×s	362.80	Joback Method
dvisc	0.0002111	Pa×s	333.25	Joback Method

dvisc	0.0002829	Pa×s	303.70	Joback Method
dvisc	0.0004036	Pa×s	274.14	Joback Method
dvisc	0.0006277	Pa×s	244.59	Joback Method
dvisc	0.0011019	Pa×s	215.04	Joback Method
dvisc	0.0023143	Pa×s	185.49	Joback Method

Sources

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

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C62322398&Units=SI

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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