

2-Methoxyisopropyl allyl ether

Inchi:	InChI=1S/C7H14O2/c1-5-6-9-7(2,3)8-4/h5H,1,6H2,2-4H3
InchiKey:	VQDSIAMWMIZPGX-UHFFFAOYSA-N
Formula:	C7H14O2
SMILES:	C=CCOC(C)(C)OC
Mol. weight [g/mol]:	130.18
CAS:	62322-46-7

Physical Properties

Property code	Value	Unit	Source
gf	-111.26	kJ/mol	Joback Method
hf	-335.57	kJ/mol	Joback Method
hfus	7.57	kJ/mol	Joback Method
hvap	34.03	kJ/mol	Joback Method
log10ws	-1.39		Crippen Method
logp	1.571		Crippen Method
mcvol	116.930	ml/mol	McGowan Method
pc	2881.21	kPa	Joback Method
tb	397.85	K	Joback Method
tc	577.01	K	Joback Method
tf	213.77	K	Joback Method
vc	0.433	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.05	J/molxK	397.85	Joback Method
cpg	284.54	J/molxK	547.15	Joback Method
cpg	274.35	J/molxK	517.29	Joback Method
cpg	263.71	J/molxK	487.43	Joback Method
cpg	252.62	J/molxK	457.57	Joback Method
cpg	241.07	J/molxK	427.71	Joback Method
cpg	294.30	J/molxK	577.01	Joback Method
dvisc	0.0002153	Paxs	397.85	Joback Method
dvisc	0.0002882	Paxs	367.17	Joback Method

dvisc	0.0004070	Paxs	336.49	Joback Method
dvisc	0.0006158	Paxs	305.81	Joback Method
dvisc	0.0010219	Paxs	275.13	Joback Method
dvisc	0.0019258	Paxs	244.45	Joback Method
dvisc	0.0043533	Paxs	213.77	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62322467&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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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