

(E)(3-Methyl-1-butenyl)(E)-1-propenyl ether

Inchi:	InChI=1S/C8H14O/c1-4-6-9-7-5-8(2)3/h4-8H,1-3H3/b6-4+,7-5+
InchiKey:	NTDALFWHPAORIU-YDFGWWAZSA-N
Formula:	C8H14O
SMILES:	CC=COC=CC(C)C
Mol. weight [g/mol]:	126.20
CAS:	61463-32-9

Physical Properties

Property code	Value	Unit	Source
gf	69.48	kJ/mol	Joback Method
hf	-111.51	kJ/mol	Joback Method
hfus	14.54	kJ/mol	Joback Method
hvap	35.34	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	2.706		Crippen Method
mcvol	120.850	ml/mol	McGowan Method
pc	2796.51	kPa	Joback Method
tb	412.74	K	Joback Method
tc	597.74	K	Joback Method
tf	176.99	K	Joback Method
vc	0.456	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	227.62	J/molxK	412.74	Joback Method
cpg	285.37	J/molxK	566.91	Joback Method
cpg	274.90	J/molxK	536.08	Joback Method
cpg	263.91	J/molxK	505.24	Joback Method
cpg	252.38	J/molxK	474.41	Joback Method
cpg	240.29	J/molxK	443.57	Joback Method
cpg	295.34	J/molxK	597.74	Joback Method
dvisc	0.0001450	Paxs	412.74	Joback Method
dvisc	0.0001957	Paxs	373.45	Joback Method

dvisc	0.0002834	Paxs	334.16	Joback Method
dvisc	0.0004531	Paxs	294.87	Joback Method
dvisc	0.0008365	Paxs	255.57	Joback Method
dvisc	0.0019299	Paxs	216.28	Joback Method
dvisc	0.0064539	Paxs	176.99	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=C61463329&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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

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