

cis-(3,3-Dimethyl-1-butenyl ethyl ether

Inchi:	InChI=1S/C8H16O/c1-5-9-7-6-8(2,3)4/h6-7H,5H2,1-4H3/b7-6-
InchiKey:	WSGATPNSJGOYHJ-SREVYHEPSA-N
Formula:	C8H16O
SMILES:	CCOC=CC(C)(C)C
Mol. weight [g/mol]:	128.21
CAS:	18951-57-0

Physical Properties

Property code	Value	Unit	Source
gf	-5.46	kJ/mol	Joback Method
hf	-232.20	kJ/mol	Joback Method
hfus	10.45	kJ/mol	Joback Method
hvap	34.47	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.583		Crippen Method
mcvol	125.150	ml/mol	McGowan Method
pc	2679.08	kPa	Joback Method
tb	405.79	K	Joback Method
tc	589.20	K	Joback Method
tf	199.49	K	Joback Method
vc	0.470	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.32	J/molxK	405.79	Joback Method
cpg	258.30	J/molxK	436.36	Joback Method
cpg	271.60	J/molxK	466.93	Joback Method
cpg	284.25	J/molxK	497.49	Joback Method
cpg	296.28	J/molxK	528.06	Joback Method
cpg	307.71	J/molxK	558.63	Joback Method
cpg	318.56	J/molxK	589.20	Joback Method
dvisc	0.0070452	Paxs	199.49	Joback Method
dvisc	0.0025060	Paxs	233.87	Joback Method

dvisc	0.0011618	Paxs	268.26	Joback Method
dvisc	0.0006415	Paxs	302.64	Joback Method
dvisc	0.0003998	Paxs	337.02	Joback Method
dvisc	0.0002720	Paxs	371.41	Joback Method
dvisc	0.0001975	Paxs	405.79	Joback Method

Sources

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=C18951570&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mccvol:	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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