1-Butene, 3-methyl-1-(1-propenyloxy)-, (Z,E)-

Inchi: InChI=1S/C8H14O/c1-4-6-9-7-5-8(2)3/h4-8H,1-3H3/b6-4-,7-5+
InchiKey: NTDALFWHPAORIU-XGXWUAJZSA-N
Formula: C8H14O
SMILES: CC=COC=CC(C)C
Mol. weight [g/mol]: 126.20
CAS: 61463-33-0

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	m3/kmol	Joback Method

Temperature Dependent Properties

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

dvisc	0.0002834	Pa×s	334.16	Joback Method
dvisc	0.0004531	Pa×s	294.87	Joback Method
dvisc	0.0008365	Pa×s	255.57	Joback Method
dvisc	0.0019299	Pa×s	216.28	Joback Method
dvisc	0.0064539	Pa×s	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=C61463330&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

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