

Ethane, 1-ethoxy-1-(2-methylpropyloxy)

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C7H16O2/c1-5-8-7(4)9-6(2)3/h6-7H,5H2,1-4H3

QRYDGQLSWQAGGB-UHFFFAOYSA-N

C7H16O2

CCOC(C)OC(C)C

132.20

Physical Properties

Property code	Value	Unit	Source
gf	-206.82	kJ/mol	Joback Method
hf	-462.81	kJ/mol	Joback Method
hfus	9.22	kJ/mol	Joback Method
hvap	35.22	kJ/mol	Joback Method
log10ws	-1.65		Crippen Method
logp	1.794		Crippen Method
mcvol	121.230	ml/mol	McGowan Method
pc	2746.90	kPa	Joback Method
rinpol	830.00		NIST Webbook
tb	403.52	K	Joback Method
tc	575.91	K	Joback Method
tf	183.11	K	Joback Method
vc	0.452	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.27	J/mol×K	403.52	Joback Method
cpg	254.22	J/mol×K	432.25	Joback Method
cpg	265.86	J/mol×K	460.98	Joback Method
cpg	277.17	J/mol×K	489.72	Joback Method
cpg	288.15	J/mol×K	518.45	Joback Method
cpg	298.81	J/mol×K	547.18	Joback Method
cpg	309.12	J/mol×K	575.91	Joback Method
dvisc	0.0086595	Pa×s	183.11	Joback Method
dvisc	0.0026699	Pa×s	219.84	Joback Method

dvisc	0.0011530	Pa×s	256.58	Joback Method
dvisc	0.0006145	Pa×s	293.31	Joback Method
dvisc	0.0003767	Pa×s	330.05	Joback Method
dvisc	0.0002547	Pa×s	366.78	Joback Method
dvisc	0.0001850	Pa×s	403.52	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91048&Units=SI
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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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