

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

Inchi: InChI=1S/C7H15ClO2/c1-4-9-7(5-8)10-6(2)3/h6-7H,4-5H2,1-3H3

InchiKey: VMYRWOTVRPQQAH-UHFFFAOYSA-N

Formula: C7H15ClO2

SMILES: CCOC(CCl)OC(C)C

Mol. weight [g/mol]: 166.65

Physical Properties

Property code	Value	Unit	Source
gf	-218.75	kJ/mol	Joback Method
hf	-478.55	kJ/mol	Joback Method
hfus	13.41	kJ/mol	Joback Method
hvap	39.61	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	2.013		Crippen Method
mcvol	133.470	ml/mol	McGowan Method
pc	2643.39	kPa	Joback Method
rinpol	1040.00		NIST Webbook
tb	440.95	K	Joback Method
tc	620.31	K	Joback Method
tf	213.03	K	Joback Method
vc	0.500	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.46	J/mol×K	440.95	Joback Method
cpg	282.27	J/mol×K	470.84	Joback Method
cpg	293.72	J/mol×K	500.74	Joback Method
cpg	304.80	J/mol×K	530.63	Joback Method
cpg	315.51	J/mol×K	560.52	Joback Method
cpg	325.84	J/mol×K	590.42	Joback Method
cpg	335.78	J/mol×K	620.31	Joback Method
dvisc	0.0067627	Paxs	213.03	Joback Method
dvisc	0.0023959	Paxs	251.02	Joback Method

dvisc	0.0011151	Paxs	289.00	Joback Method
dvisc	0.0006199	Paxs	326.99	Joback Method
dvisc	0.0003894	Paxs	364.98	Joback Method
dvisc	0.0002670	Paxs	402.96	Joback Method
dvisc	0.0001954	Paxs	440.95	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R91066&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
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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