Isopropyl [2-chloro-1-(chloromethyl)ethyl] ether

Inchi: InChI=1S/C6H12Cl2O/c1-5(2)9-6(3,8)4-7/h5H,4H2,1-3H3
InchiKey: VKTMECFEGQKZCB-UHFFFAOYSA-N
Formula: C6H12Cl2O
SMILES: CC(C)OC(C)(Cl)CCl
Mol. weight [g/mol]: 171.06

Physical Properties

Property code	Value	Unit	Source
gf	-128.82	kJ/mol	Joback Method
hf	-344.90	kJ/mol	Joback Method
hfus	9.94	kJ/mol	Joback Method
hvap	38.45	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.605		Crippen Method
mcvol	125.750	ml/mol	McGowan Method
pc	2896.73	kPa	Joback Method
tb	430.29	K	Joback Method
tc	626.41	K	Joback Method
tf	226.87	K	Joback Method
vc	0.470	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	236.94	J/mol×K	430.29	Joback Method
cpg	248.34	J/mol×K	462.98	Joback Method
cpg	259.15	J/mol×K	495.66	Joback Method
cpg	269.39	J/mol×K	528.35	Joback Method
cpg	279.08	J/mol×K	561.03	Joback Method
cpg	288.25	J/mol×K	593.72	Joback Method
cpg	296.90	J/mol×K	626.41	Joback Method
dvisc	0.0082137	Pa×s	226.87	Joback Method
dvisc	0.0032489	Pa×s	260.77	Joback Method
dvisc	0.0015908	Pa×s	294.68	Joback Method

dvisc	0.0009026	Pa×s	328.58	Joback Method
dvisc	0.0005694	Pa×s	362.48	Joback Method
dvisc	0.0003886	Pa×s	396.39	Joback Method
dvisc	0.0002817	Pa×s	430.29	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=R629266&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