1,2-Dichloropropyl propyl ether

Inchi: InChI=1S/C6H12Cl2O/c1-3-4-9-6(8)5(2)7/h5-6H,3-4H2,1-2H3
InchiKey: BGZOWNBTBBZBLL-UHFFFAOYSA-N
Formula: C6H12Cl2O
SMILES: CCCOC(Cl)C(C)Cl
Mol. weight [g/mol]: 171.06

Physical Properties

Property code	Value	Unit	Source
gf	-134.10	kJ/mol	Joback Method
hf	-341.43	kJ/mol	Joback Method
hfus	13.83	kJ/mol	Joback Method
hvap	39.35	kJ/mol	Joback Method
log10ws	-2.45		Crippen Method
logp	2.605		Crippen Method
mcvol	125.750	ml/mol	McGowan Method
pc	2862.74	kPa	Joback Method
tb	433.08	K	Joback Method
tc	621.21	K	Joback Method
tf	209.45	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	234.53	J/mol×K	433.08	Joback Method
cpg	245.04	J/mol×K	464.43	Joback Method
cpg	255.15	J/mol×K	495.79	Joback Method
cpg	264.85	J/mol×K	527.14	Joback Method
cpg	274.14	J/mol×K	558.50	Joback Method
cpg	283.05	J/mol×K	589.85	Joback Method
cpg	291.56	J/mol×K	621.21	Joback Method
dvisc	0.0084256	Pa×s	209.45	Joback Method
dvisc	0.0030348	Pa×s	246.72	Joback Method
dvisc	0.0014291	Pa×s	283.99	Joback Method

dvisc	0.0008015	Pa×s	321.26	Joback Method
dvisc	0.0005069	Pa×s	358.54	Joback Method
dvisc	0.0003495	Pa×s	395.81	Joback Method
dvisc	0.0002569	Pa×s	433.08	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=R629073&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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