1,1-Dichloropropyl propyl ether

Inchi: InChI=1S/C6H12Cl2O/c1-3-5-9-6(7,8)4-2/h3-5H2,1-2H3
InchiKey: UFLXLVHVFCSXIR-UHFFFAOYSA-N
Formula: C6H12Cl2O
SMILES: CCCOC(Cl)(Cl)CC
Mol. weight [g/mol]: 171.06

Physical Properties

Property code	Value	Unit	Source
gf	-126.38	kJ/mol	Joback Method
hf	-339.62	kJ/mol	Joback Method
hfus	13.46	kJ/mol	Joback Method
hvap	38.83	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	2.954		Crippen Method
mcvol	125.750	ml/mol	McGowan Method
pc	2871.95	kPa	Joback Method
rinpol	954.00		NIST Webbook
rinpol	954.00		NIST Webbook
tb	430.73	K	Joback Method
tc	622.33	K	Joback Method
tf	241.87	K	Joback Method
vc	0.476	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	236.86	J/mol×K	430.73	Joback Method
cpg	286.74	J/mol×K	590.40	Joback Method
cpg	277.80	J/mol×K	558.46	Joback Method
cpg	268.36	J/mol×K	526.53	Joback Method
cpg	258.40	J/mol×K	494.60	Joback Method
cpg	247.91	J/mol×K	462.66	Joback Method
cpg	295.21	J/mol×K	622.33	Joback Method
dvisc	0.0002939	Pa×s	430.73	Joback Method

dvisc	0.0003925	Pa×s	399.25	Joback Method
dvisc	0.0005509	Pa×s	367.78	Joback Method
dvisc	0.0008236	Pa×s	336.30	Joback Method
dvisc	0.0013382	Pa×s	304.82	Joback Method
dvisc	0.0024314	Pa×s	273.35	Joback Method
dvisc	0.0051604	Pa×s	241.87	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=R629068&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume