Propane, 1,1'-oxybis[2-chloro-

Other names:	Bis(2-chloropropyl)ether
	Propane, 1,1'-oxybis*2-chloro-
	2,2'-Dichloropropyl propyl ether
Inchi:	InChI=1S/C6H12Cl2O/c1-5(7)3-9-4-6(2)8/h5-6H,3-4H2,1-2H3
InchiKey:	LTJNJOSNHALAPB-UHFFFAOYSA-N
Formula:	C6H12Cl2O
SMILES:	CC(Cl)COCC(C)Cl
Mol. weight [g/mol]:	171.06
CAS:	54460-96-7

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	-1.95		Crippen Method
logp	2.258		Crippen Method
mcvol	125.750	ml/mol	McGowan Method
pc	2862.74	kPa	Joback Method
rinpol	1048.00		NIST Webbook
rinpol	1055.00		NIST Webbook
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: 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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C54460967&Units=SI

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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