Ethane, 1,2-bis(2-chloroethoxy)-

Other names:	Triethylene glycol dichloride
	Triglycol dichloride
	1,2-Bis(chloroethoxy)ethane
	1,2-Bis(2-chloroethoxy)ethane
	1,8-Dichloro-3,6-dioxaoctane
	2-(2-Chloroethoxy)ethyl 2'-chloroethyl ether
	Bis(2-chloroethoxy)ethane
	2-(2-Chlorethoxy)ethyl 2'-chlorethyl ether
	1-Chloro-2-[2-(2-chloroethoxy)ethoxy]ethane
	Bis(chloroethoxy)ethane
Inchi:	InChI=1S/C6H12Cl2O2/c7-1-3-9-5-6-10-4-2-8/h1-6H2
InchiKey:	AGYUOJIYYGGHKV-UHFFFAOYSA-N
Formula:	C6H12Cl2O2
SMILES:	ClCCOCCOCCCl
Mol. weight [g/mol]:	187.06
CAS:	112-26-5

Physical Properties

Property code	Value	Unit	Source
gf	-234.22	kJ/mol	Joback Method
hf	-463.09	kJ/mol	Joback Method
hfus	22.07	kJ/mol	Joback Method
hvap	42.54	kJ/mol	Joback Method
log10ws	-0.81		Crippen Method
logp	1.497		Crippen Method
mcvol	131.620	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
rinpol	1626.00		NIST Webbook
rinpol	1626.00		NIST Webbook
tb	508.20	K	NIST Webbook
tc	635.72	K	Joback Method
tf	261.68	K	Joback Method
vc	0.505	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.34	J/mol×K	456.38	Joback Method
cpg	266.07	J/mol×K	486.27	Joback Method
cpg	275.50	J/mol×K	516.16	Joback Method
cpg	284.63	J/mol×K	546.05	Joback Method
cpg	293.46	J/mol×K	575.94	Joback Method
cpg	301.96	J/mol×K	605.83	Joback Method
cpg	310.15	J/mol×K	635.72	Joback Method
dvisc	0.0025371	Pa×s	261.68	Joback Method
dvisc	0.0013697	Pa×s	294.13	Joback Method
dvisc	0.0008358	Pa×s	326.58	Joback Method
dvisc	0.0005576	Pa×s	359.03	Joback Method
dvisc	0.0003979	Pa×s	391.48	Joback Method
dvisc	0.0002989	Pa×s	423.93	Joback Method
dvisc	0.0002339	Pa×s	456.38	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=C112265&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