Ethanol, 2-[2-(2-chloroethoxy)ethoxy]-

Other names:	Triethylene glycol monochloride
	2-[2-(2-Chloroethoxy)ethoxy]ethanol
	Triethylene glycol monochlorohydrin
Inchi:	InChI=1S/C6H13ClO3/c7-1-3-9-5-6-10-4-2-8/h8H,1-6H2
InchiKey:	KECMLGZOQMJIBM-UHFFFAOYSA-N
Formula:	C6H13ClO3
SMILES:	OCCOCCOCCCl
Mol. weight [g/mol]:	168.62
CAS:	5197-62-6

Physical Properties

Property code	Value	Unit	Source
gf	-359.11	kJ/mol	Joback Method
hf	-599.58	kJ/mol	Joback Method
hfus	21.96	kJ/mol	Joback Method
hvap	54.83	kJ/mol	Joback Method
log10ws	0.07		Crippen Method
logp	0.251		Crippen Method
mcvol	125.250	ml/mol	McGowan Method
pc	3181.14	kPa	Joback Method
tb	511.13	K	Joback Method
tc	678.02	K	Joback Method
tf	292.58	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	277.73	J/mol×K	511.13	Joback Method
cpg	286.77	J/mol×K	538.95	Joback Method
cpg	295.53	J/mol×K	566.76	Joback Method
cpg	304.00	J/mol×K	594.58	Joback Method
cpg	312.19	J/mol×K	622.39	Joback Method
cpg	320.08	J/mol×K	650.21	Joback Method

cpg	327.68	J/mol×K	678.02	Joback Method
dvisc	0.0098342	Pa×s	292.58	Joback Method
dvisc	0.0031478	Pa×s	329.01	Joback Method
dvisc	0.0012644	Pa×s	365.43	Joback Method
dvisc	0.0005992	Pa×s	401.86	Joback Method
dvisc	0.0003215	Pa×s	438.28	Joback Method
dvisc	0.0001898	Pa×s	474.70	Joback Method
dvisc	0.0001208	Pa×s	511.13	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	391.70	K	0.70	NIST Webbook

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=C5197626&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

tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume