Ethane, (chloromethoxy)-

Other names:	Ether, chloromethyl ethyl
	(Chloromethyl)ethyl ether
	Chloromethoxyethane
	Ethoxychloromethane
	Ethoxymethyl chloride
	Ethyl chloromethyl ether
	ClCH2OC2H5
	UN 2354
Inchi:	InChI=1S/C3H7ClO/c1-2-5-3-4/h2-3H2,1H3
InchiKey:	FCYRSDMGOLYDHL-UHFFFAOYSA-N
Formula:	C3H7ClO
SMILES:	CCOCCl
Mol. weight [g/mol]:	94.54
CAS:	3188-13-4

Physical Properties

Property code	Value	Unit	Source
gf	-142.55	kJ/mol	Joback Method
hf	-253.21	kJ/mol	Joback Method
hfus	8.91	kJ/mol	Joback Method
hvap	29.07	kJ/mol	Joback Method
ie	10.30	eV	NIST Webbook
log10ws	-0.81		Crippen Method
logp	1.219		Crippen Method
mcvol	71.240	ml/mol	McGowan Method
pc	4109.14	kPa	Joback Method
rinpol	634.00		NIST Webbook
tb	356.20	K	NIST Webbook
tc	501.24	K	Joback Method
tf	175.72	K	Joback Method
vc	0.271	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	108.76	J/mol×K	327.89	Joback Method
cpg	114.30	J/mol×K	356.78	Joback Method
cpg	119.71	J/mol×K	385.67	Joback Method
cpg	125.00	J/mol×K	414.57	Joback Method
cpg	130.17	J/mol×K	443.46	Joback Method
cpg	135.20	J/mol×K	472.35	Joback Method
cpg	140.11	J/mol×K	501.24	Joback Method
dvisc	0.0026692	Pa×s	175.72	Joback Method
dvisc	0.0014128	Pa×s	201.08	Joback Method
dvisc	0.0008624	Pa×s	226.44	Joback Method
dvisc	0.0005814	Pa×s	251.81	Joback Method
dvisc	0.0004213	Pa×s	277.17	Joback Method
dvisc	0.0003222	Pa×s	302.53	Joback Method
dvisc	0.0002569	Pa×s	327.89	Joback Method

Sources

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=C3188134&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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
ie: Ionization energy
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