Ethene, (2-chloroethoxy)-

Other names:	Ether, 2-chloroethyl vinyl
	«beta»-Chloroethyl vinyl ether
	Vinyl «beta»-chloroethyl ether
	Vinyl 2-chloroethyl ether
	2-Chloroethyl vinyl ether
	2-Vinyloxyethyl chloride
	(2-Chlorethyl) vinyl ether
	(2-Chloroethoxy)ethene
	Rcra waste number U042
	NSC 8261
Inchi:	InChI=1S/C4H7ClO/c1-2-6-4-3-5/h2H,1,3-4H2
InchiKey:	DNJRKFKAFWSXSE-UHFFFAOYSA-N
Formula:	C4H7ClO
SMILES:	C=COCCCl
Mol. weight [g/mol]:	106.55
CAS:	110-75-8

Physical Properties

Property code	Value	Unit	Source
chl	-2390.00 ± 3.00	kJ/mol	NIST Webbook
gf	-46.29	kJ/mol	Joback Method
hf	-148.42	kJ/mol	Joback Method
hfl	-208.00 ± 0.80	kJ/mol	NIST Webbook
hfus	10.22	kJ/mol	Joback Method
hvap	38.00 ± 1.00	kJ/mol	NIST Webbook
log10ws	-1.09		Crippen Method
logp	1.385		Crippen Method
mcvol	81.030	ml/mol	McGowan Method
pc	3838.78	kPa	Joback Method
tb	381.20	K	NIST Webbook
tb	382.25	K	NIST Webbook
tc	524.69	K	Joback Method
tf	203.45	K	NIST Webbook
vc	0.307	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	126.57	J/mol×K	347.45	Joback Method
cpg	133.05	J/mol×K	376.99	Joback Method
cpg	139.32	J/mol×K	406.53	Joback Method
cpg	145.38	J/mol×K	436.07	Joback Method
cpg	151.25	J/mol×K	465.61	Joback Method
cpg	156.92	J/mol×K	495.15	Joback Method
cpg	162.38	J/mol×K	524.69	Joback Method
dvisc	0.0025522	Pa×s	185.23	Joback Method
dvisc	0.0013601	Pa×s	212.27	Joback Method
dvisc	0.0008356	Pa×s	239.30	Joback Method
dvisc	0.0005667	Pa×s	266.34	Joback Method
dvisc	0.0004129	Pa×s	293.38	Joback Method
dvisc	0.0003173	Pa×s	320.41	Joback Method
dvisc	0.0002541	Pa×s	347.45	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C110758&Units=SI
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

Legend

chl: Standard liquid enthalpy of combustion
cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfl: Liquid phase 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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume