2-Chloroethyl vinyl ether

Other names:	(2-Chlorethyl) vinyl ether
	(2-Chloroethoxy)ethene
	2-Chloroethyl vinyl ether
	2-Vinyloxyethyl chloride
	Ether, 2-chloroethyl vinyl
	NSC 8261
	Rcra waste number U042
	Vinyl 2-chloroethyl ether
	Vinyl «beta»-chloroethyl ether
	«beta»-Chloroethyl vinyl ether
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

Physical Properties

Property code	Value	Unit	Source
af	0.3676		Cheméo Relay (1.0)
hf	-170.36	kJ/mol	Cheméo Relay (1.0)
hfus	10.22	kJ/mol	Joback Method
hvap	34.64	kJ/mol	Cheméo Relay (1.0)
ie	9.44	eV	Cheméo Relay (1.0)
log10ws	-1.15		Cheméo Relay (1.0)
logp	1.385		Crippen Method
mcvol	81.030	ml/mol	McGowan Method
pc	3838.78	kPa	Joback Method
tb	380.70	K	Cheméo Relay (1.0)
tc	549.82	K	Cheméo Relay (1.0)
tf	197.97	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

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

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C110758&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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

tb: Normal Boiling Point Temperature

tc: Critical Temperature

tf: Normal melting (fusion) point