

Ethene, 1-chloro-2-ethoxy-, (E)-

Inchi:	InChI=1S/C4H7ClO/c1-2-6-4-3-5/h3-4H,2H2,1H3/b4-3+
InchiKey:	OFCHIOZFUUTWEM-ONEGZZNKSA-N
Formula:	C4H7ClO
SMILES:	CCOC=CCl
Mol. weight [g/mol]:	106.55
CAS:	23679-22-3

Physical Properties

Property code	Value	Unit	Source
gf	-53.91	kJ/mol	Joback Method
hf	-156.63	kJ/mol	Joback Method
hfus	11.70	kJ/mol	Joback Method
hvap	31.25	kJ/mol	Joback Method
log10ws	-1.58		Crippen Method
logp	1.733		Crippen Method
mvol	81.030	ml/mol	McGowan Method
pc	3886.79	kPa	Joback Method
tb	354.93	K	Joback Method
tc	538.04	K	Joback Method
tf	181.91	K	Joback Method
vc	0.306	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	124.91	J/molxK	354.93	Joback Method
cpg	156.58	J/molxK	507.52	Joback Method
cpg	150.76	J/molxK	477.00	Joback Method
cpg	144.68	J/molxK	446.48	Joback Method
cpg	138.35	J/molxK	415.97	Joback Method
cpg	131.77	J/molxK	385.45	Joback Method
cpg	162.17	J/molxK	538.04	Joback Method
dvisc	0.0002161	Paxs	354.93	Joback Method
dvisc	0.0002743	Paxs	326.09	Joback Method

dvisc	0.0003646	Paxs	297.26	Joback Method
dvisc	0.0005151	Paxs	268.42	Joback Method
dvisc	0.0007911	Paxs	239.58	Joback Method
dvisc	0.0013663	Paxs	210.75	Joback Method
dvisc	0.0028060	Paxs	181.91	Joback Method

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=C23679223&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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