

Ethane, 1-chloro-1-ethoxy-

Other names:	1-chloro-1-ethoxyethane
Inchi:	InChI=1S/C4H9ClO/c1-3-6-4(2)5/h4H,3H2,1-2H3
InchiKey:	URGLIMIKUNFFMT-UHFFFAOYSA-N
Formula:	C4H9ClO
SMILES:	CCOC(C)Cl
Mol. weight [g/mol]:	108.57
CAS:	7081-78-9

Physical Properties

Property code	Value	Unit	Source
gf	-136.57	kJ/mol	Joback Method
hf	-279.13	kJ/mol	Joback Method
hfus	7.98	kJ/mol	Joback Method
hvap	30.91	kJ/mol	Joback Method
log10ws	-1.34		Crippen Method
logp	1.608		Crippen Method
mcvol	85.330	ml/mol	McGowan Method
pc	3682.02	kPa	Joback Method
rinpol	675.00		NIST Webbook
rinpol	670.00		NIST Webbook
tb	350.33	K	Joback Method
tc	528.10	K	Joback Method
tf	171.99	K	Joback Method
vc	0.321	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	139.26	J/mol×K	350.33	Joback Method
cpg	146.71	J/mol×K	379.96	Joback Method
cpg	153.96	J/mol×K	409.59	Joback Method
cpg	161.00	J/mol×K	439.22	Joback Method
cpg	167.84	J/mol×K	468.84	Joback Method
cpg	174.46	J/mol×K	498.47	Joback Method

cpg	180.87	J/mol×K	528.10	Joback Method
dvisc	0.0052798	Pa×s	171.99	Joback Method
dvisc	0.0022066	Pa×s	201.71	Joback Method
dvisc	0.0011538	Pa×s	231.44	Joback Method
dvisc	0.0006993	Pa×s	261.16	Joback Method
dvisc	0.0004695	Pa×s	290.88	Joback Method
dvisc	0.0003394	Pa×s	320.61	Joback Method
dvisc	0.0002592	Pa×s	350.33	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=C7081789&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.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
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

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