

Ethane, 1,2-dichloro-1-ethoxy-

Other names:	Ether, 1,2-dichloroethyl ethyl 1,2-Dichloroethyl ethyl ether 1,2-Dichlorodiethyl ether Ethyl 1,2-dichloroethyl ether 1,2-dichloro-2-ethoxyethane
Inchi:	InChI=1S/C4H8Cl2O/c1-2-7-4(6)3-5/h4H,2-3H2,1H3
InchiKey:	NNBUKAPOVBEMNI-UHFFFAOYSA-N
Formula:	C4H8Cl2O
SMILES:	CCOC(Cl)CCI
Mol. weight [g/mol]:	143.01
CAS:	623-46-1

Physical Properties

Property code	Value	Unit	Source
gf	-148.50	kJ/mol	Joback Method
hf	-294.87	kJ/mol	Joback Method
hfus	12.18	kJ/mol	Joback Method
hvap	35.29	kJ/mol	Joback Method
log10ws	-1.50		Crippen Method
logp	1.827		Crippen Method
mcvol	97.570	ml/mol	McGowan Method
pc	3522.09	kPa	Joback Method
rinpol	865.00		NIST Webbook
rinpol	856.00		NIST Webbook
rinpol	856.00		NIST Webbook
tb	414.70 ± 0.60	K	NIST Webbook
tb	418.20	K	NIST Webbook
tb	415.70	K	NIST Webbook
tc	574.35	K	Joback Method
tf	201.91	K	Joback Method
vc	0.369	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	161.62	J/mol×K	387.76	Joback Method
cpg	169.00	J/mol×K	418.86	Joback Method
cpg	176.14	J/mol×K	449.96	Joback Method
cpg	183.02	J/mol×K	481.05	Joback Method
cpg	189.66	J/mol×K	512.15	Joback Method
cpg	196.06	J/mol×K	543.25	Joback Method
cpg	202.20	J/mol×K	574.35	Joback Method
dvisc	0.0050358	Paxs	201.91	Joback Method
dvisc	0.0023000	Paxs	232.89	Joback Method
dvisc	0.0012627	Paxs	263.86	Joback Method
dvisc	0.0007863	Paxs	294.84	Joback Method
dvisc	0.0005358	Paxs	325.81	Joback Method
dvisc	0.0003902	Paxs	356.78	Joback Method
dvisc	0.0002990	Paxs	387.76	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C623461&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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