

Ethanamine, N-(ethoxymethyl)-N-ethyl-

Other names:	Diethylamine, N-(ethoxymethyl)- (Diethylamino)methyl ethyl ether N-(Ethoxymethyl)diethylamine
Inchi:	InChI=1S/C7H17NO/c1-4-8(5-2)7-9-6-3/h4-7H2,1-3H3
InchiKey:	FKWUBBCUJLXTFR-UHFFFAOYSA-N
Formula:	C7H17NO
SMILES:	CCOCCN(CC)CC
Mol. weight [g/mol]:	131.22
CAS:	7352-03-6

Physical Properties

Property code	Value	Unit	Source
gf	13.84	kJ/mol	Joback Method
hf	-252.50	kJ/mol	Joback Method
hfus	18.09	kJ/mol	Joback Method
hvap	35.63	kJ/mol	Joback Method
log10ws	-0.90		Crippen Method
logp	1.322		Crippen Method
mcvol	125.340	ml/mol	McGowan Method
pc	2744.03	kPa	Joback Method
tb	394.42	K	Joback Method
tc	557.63	K	Joback Method
tf	223.35	K	Joback Method
vc	0.464	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	246.66	J/mol×K	394.42	Joback Method
cpg	259.29	J/mol×K	421.62	Joback Method
cpg	271.49	J/mol×K	448.82	Joback Method
cpg	283.27	J/mol×K	476.03	Joback Method
cpg	294.63	J/mol×K	503.23	Joback Method
cpg	305.58	J/mol×K	530.43	Joback Method

cpg	316.14	J/mol×K	557.63	Joback Method
hvapt	39.60	kJ/mol	342.50	NIST Webbook

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=C7352036&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
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

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