Ethanamine, 2,2-dimethoxy-N-methyl-

Other names:	Acetaldehyde, (methylamino)-, dimethyl acetal
	Methylaminoacetaldehyde dimethyl acetal
	N-Methylaminoacetaldehyde dimethyl acetal
	2-(Methylamino)acetaldehyde dimethyl acetal
	2,2-Dimethoxyethyl(methyl)amine
Inchi:	InChI=1S/C5H13NO2/c1-6-4-5(7-2)8-3/h5-6H,4H2,1-3H3
InchiKey:	HUMIEJNVCICTPJ-UHFFFAOYSA-N
Formula:	C5H13NO2
SMILES:	CNCC(OC)OC
Mol. weight [g/mol]:	119.16
CAS:	122-07-6

Physical Properties

Property code	Value	Unit	Source
gf	-131.83	kJ/mol	Joback Method
hf	-362.78	kJ/mol	Joback Method
hfus	12.66	kJ/mol	Joback Method
hvap	37.59	kJ/mol	Joback Method
log10ws	0.11		Crippen Method
logp	-0.175		Crippen Method
mcvol	103.030	ml/mol	McGowan Method
pc	3415.86	kPa	Joback Method
tb	413.20	K	NIST Webbook
tc	583.40	K	Joback Method
tf	228.23	K	Joback Method
vc	0.381	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	207.41	J/mol×K	408.37	Joback Method
cpg	217.36	J/mol×K	437.54	Joback Method
cpg	227.06	J/mol×K	466.71	Joback Method
cpg	236.51	J/mol×K	495.89	Joback Method

cpg	245.69	J/mol×K	525.06	Joback Method
cpg	254.60	J/mol×K	554.23	Joback Method
cpg	263.24	J/mol×K	583.40	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C122076&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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