

Methanamine, N-methoxy-

Other names:	Methylamine, N-methoxy- Hydroxylamine, N,O-dimethyl- Methoxyamine, N-methyl- Methoxymethylamine N-Methoxy-N-methylamine N-Methoxymethylamine N-Methyl-O-methylhydroxylamine N-Methylmethoxyamine N,O-Dimethylhydroxylamine O-Methyl-N-methylhydroxylamine O,N-Dimethylhydroxylamine CH3NHOCH3
Inchi:	InChI=1S/C2H7NO/c1-3-4-2/h3H,1-2H3
InchiKey:	KRKPYFLIYNGWTE-UHFFFAOYSA-N
Formula:	C2H7NO
SMILES:	CNOC
Mol. weight [g/mol]:	61.08
CAS:	1117-97-1

Physical Properties

Property code	Value	Unit	Source
gf	-49.65	kJ/mol	Joback Method
hf	-163.36	kJ/mol	Joback Method
hfus	7.22	kJ/mol	Joback Method
hvap	28.89	kJ/mol	Joback Method
ie	8.92	eV	NIST Webbook
log10ws	0.07		Crippen Method
logp	-0.233		Crippen Method
mcvol	54.890	ml/mol	McGowan Method
pc	5001.51	kPa	Joback Method
tb	317.75	K	Joback Method
tc	488.59	K	Joback Method
tf	187.19	K	Joback Method
vc	0.201	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	87.78	J/mol×K	317.75	Joback Method
cpg	92.95	J/mol×K	346.22	Joback Method
cpg	98.02	J/mol×K	374.70	Joback Method
cpg	103.00	J/mol×K	403.17	Joback Method
cpg	107.88	J/mol×K	431.64	Joback Method
cpg	112.66	J/mol×K	460.12	Joback Method
cpg	117.33	J/mol×K	488.59	Joback Method
hvapt	34.30	kJ/mol	272.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=C1117971&Units=SI

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
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
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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