CH3ON(CH3)2

Other names:	Trimethylhydroxylamine
	N,N-Dimethylmethoxylamine
	N,N,O-Trimethyl-hydroxylamine
Inchi:	InChI=1S/C3H9NO/c1-4(2)5-3/h1-3H3
InchiKey:	QVDVENIYNXDSOK-UHFFFAOYSA-N
Formula:	C3H9NO
SMILES:	CON(C)C
Mol. weight [g/mol]:	75.11
CAS:	5669-39-6

Physical Properties

Property code	Value	Unit	Source
gf	-19.84	kJ/mol	Joback Method
hf	-169.94	kJ/mol	Joback Method
hfus	7.74	kJ/mol	Joback Method
hvap	26.73	kJ/mol	Joback Method
ie	8.78	eV	NIST Webbook
log10ws	0.27		Crippen Method
logp	0.109		Crippen Method
mcvol	68.980	ml/mol	McGowan Method
pc	4299.92	kPa	Joback Method
tb	302.90	K	Joback Method
tc	464.88	K	Joback Method
tf	178.27	K	Joback Method
vc	0.239	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	108.11	J/mol×K	302.90	Joback Method
cpg	115.20	J/mol×K	329.90	Joback Method
cpg	122.09	J/mol×K	356.89	Joback Method
cpg	128.79	J/mol×K	383.89	Joback Method
cpg	135.29	J/mol×K	410.89	Joback Method

cpg	141.60	J/mol×K	437.88	Joback Method
cpg	147.72	J/mol×K	464.88	Joback Method
hvapt	28.00	kJ/mol	245.50	NIST Webbook

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=C5669396&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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