N-Methoxymethyl-N-methylformamide

Other names: Formamide, N-(methoxymethyl)-N-methyl-
Inchi: InChI=1S/C4H9NO2/c1-5(3-6)4-7-2/h3H,4H2,1-2H3
InchiKey: AITXBHMOGHXWFR-UHFFFAOYSA-N
Formula: C4H9NO2
SMILES: COCN(C)C=O
Mol. weight [g/mol]: 103.12
CAS: 5129-79-3

Physical Properties

Property code	Value	Unit	Source
gf	-110.94	kJ/mol	Joback Method
hf	-276.16	kJ/mol	Joback Method
hfus	12.61	kJ/mol	Joback Method
hvap	35.67	kJ/mol	Joback Method
log10ws	0.58		Crippen Method
logp	-0.322		Crippen Method
mcvol	84.640	ml/mol	McGowan Method
pc	4178.49	kPa	Joback Method
rinpol	912.80		NIST Webbook
rinpol	912.80		NIST Webbook
tb	374.44	K	Joback Method
tc	547.06	K	Joback Method
tf	231.54	K	Joback Method
vc	0.312	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	156.84	J/mol×K	374.44	Joback Method
cpg	164.90	J/mol×K	403.21	Joback Method
cpg	172.68	J/mol×K	431.98	Joback Method
cpg	180.19	J/mol×K	460.75	Joback Method
cpg	187.43	J/mol×K	489.52	Joback Method
cpg	194.39	J/mol×K	518.29	Joback Method

cpg	201.09	J/mol×K	547.06	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5129793&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
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume