Acetamide, N-methoxy

Inchi: InChI=1S/C3H7NO2/c1-3(5)4-6-2/h1-2H3,(H,4,5)
InchiKey: SOZXKDHEWJXRKV-UHFFFAOYSA-N
Formula: C3H7NO2
SMILES: CONC(C)=O
Mol. weight [g/mol]: 89.09
CAS: 5806-90-6

Physical Properties

Property code	Value	Unit	Source
affp	879.00	kJ/mol	NIST Webbook
basg	848.00	kJ/mol	NIST Webbook
gf	-170.15	kJ/mol	Joback Method
hf	-296.58	kJ/mol	Joback Method
hfus	11.41	kJ/mol	Joback Method
hvap	37.86	kJ/mol	Joback Method
log10ws	-0.12		Crippen Method
logp	-0.316		Crippen Method
mcvol	70.550	ml/mol	McGowan Method
pc	4775.98	kPa	Joback Method
tb	394.50	K	Joback Method
tc	580.23	K	Joback Method
tf	248.39	K	Joback Method
vc	0.263	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	129.00	J/mol×K	394.50	Joback Method
cpg	135.54	J/mol×K	425.45	Joback Method
cpg	141.91	J/mol×K	456.41	Joback Method
cpg	148.08	J/mol×K	487.36	Joback Method
cpg	154.07	J/mol×K	518.32	Joback Method
cpg	159.85	J/mol×K	549.27	Joback Method
cpg	165.44	J/mol×K	580.23	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5806906&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

affp:	Proton affinity
basg:	Gas basicity
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