Acetamide, N-hydroxy-N-methyl

Inchi: InChI=1S/C3H7NO2/c1-3(5)4(2)6/h6H,1-2H3
InchiKey: BJPJMTMWIVUMAK-UHFFFAOYSA-N
Formula: C3H7NO2
SMILES: CC(=O)N(C)O
Mol. weight [g/mol]: 89.09
CAS: 13115-24-7

Physical Properties

Property code	Value	Unit	Source
affp	876.20	kJ/mol	NIST Webbook
basg	845.30	kJ/mol	NIST Webbook
gf	-180.58	kJ/mol	Joback Method
hf	-302.53	kJ/mol	Joback Method
hfus	12.23	kJ/mol	Joback Method
hvap	47.74	kJ/mol	Joback Method
log10ws	0.92		Crippen Method
logp	-0.146		Crippen Method
mcvol	70.550	ml/mol	McGowan Method
pc	5462.66	kPa	Joback Method
tb	426.53	K	Joback Method
tc	599.91	K	Joback Method
tf	266.79	K	Joback Method
vc	0.246	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	137.61	J/mol×K	426.53	Joback Method
cpg	144.05	J/mol×K	455.43	Joback Method
cpg	150.19	J/mol×K	484.32	Joback Method
cpg	156.04	J/mol×K	513.22	Joback Method
cpg	161.61	J/mol×K	542.12	Joback Method
cpg	166.91	J/mol×K	571.02	Joback Method
cpg	171.95	J/mol×K	599.91	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=C13115247&Units=SI

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

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