Aminoguanidine

Other names:	Hydrazinecarboximidamide
	Guanidine, amino-
	Aminate base
	Guanyl hydrazine
Inchi:	InChI=1S/CH6N4/c2-1(3)5-4/h4H2,(H4,2,3,5)
InchiKey:	HAMNKKUPIHEESI-UHFFFAOYSA-N
Formula:	CH6N4
SMILES:	N=C(N)NN
Mol. weight [g/mol]:	74.09
CAS:	79-17-4

Physical Properties

Property code	Value	Unit	Source
gf	383.43	kJ/mol	Joback Method
hf	255.41	kJ/mol	Joback Method
hvap	57.62	kJ/mol	Joback Method
log10ws	-1.19		Crippen Method
logp	-1.657		Crippen Method
mcvol	60.570	ml/mol	McGowan Method
tb	501.85	K	Joback Method
tf	388.99	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	133.83	J/mol×K	501.85	Joback Method
cpg	30.24	J/mol×K	100.12	Joback Method
cpg	30.24	J/mol×K	100.12	Joback Method
cpg	30.24	J/mol×K	100.12	Joback Method
cpg	30.24	J/mol×K	100.12	Joback Method
cpg	30.24	J/mol×K	100.12	Joback Method
cpg	30.24	J/mol×K	100.12	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=C79174&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation 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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point