

N-Methyl-N'-nitroguanidine

Other names:	1-Methyl-3-nitroguanidine Guanidine, N-methyl-N'-nitro- Guanidine, 1-methyl-3-nitro- N-methyl-N''-nitroguanidine
Inchi:	InChI=1S/C2H6N4O2/c1-4-2(3)5-6(7)8/h1H3,(H3,3,4,5)
InchiKey:	XCXKNNGWSDYMMMS-UHFFFAOYSA-N
Formula:	C2H6N4O2
SMILES:	CNC(N)=N[N+](=O)[O-]
Mol. weight [g/mol]:	118.09
CAS:	4245-76-5

Physical Properties

Property code	Value	Unit	Source
chs	-1576.00	kJ/mol	NIST Webbook
hf	64.32	kJ/mol	Joback Method
hvap	57.11	kJ/mol	Joback Method
log10ws	-0.51		Crippen Method
logp	-1.288		Crippen Method
mcvol	82.100	ml/mol	McGowan Method
pc	4903.92	kPa	Joback Method
tb	596.26	K	Joback Method
tc	845.22	K	Joback Method

Sources

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=C4245765&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

chs:	Standard solid enthalpy of combustion
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
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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