

Guanidine, N-methyl-N'-nitro-N-nitroso-

Other names:	Guanidine, 1-methyl-3-nitro-1-nitroso-Methylnitronitrosoguanidine MNNG N-Methyl-N'-nitro-N-nitrosoguanidine N-Nitroso-N-methylnitroguanidine 1-Methyl-1-nitroso-3-nitroguanidine N-Methyl-N-nitroso-N'-nitroguanidine 1-methyl-3-nitro-1-nitrosoguanidine MNG N-Methyl-N-nitrosanitroguanidin N'-Nitro-N-nitroso-N-methylguanidine N-Metylo-N'-nitro-N-nitrozoguanidyny NA 1325 Rcra waste number U163 1-Nitroso-3-nitro-1-methylguanidine N-Nitroso-N-methyl-N'-nitroguanidine N-Nitroso-N'-nitro-N-methylguanidine NSC 9369
Inchi:	InChI=1S/C2H5N5O3/c1-6(5-8)2(3)4-7(9)10/h1H3,(H2,3,4)
InchiKey:	VZUNGT LZRAYYDE-UHFFFAOYSA-N
Formula:	C2H5N5O3
SMILES:	CN(N=O)C(N)=N[N+](=O)[O-]
Mol. weight [g/mol]:	147.09
CAS:	70-25-7

Physical Properties

Property code	Value	Unit	Source
hf	-89.81	kJ/mol	Joback Method
hvap	61.81	kJ/mol	Joback Method
log10ws	-1.08		Crippen Method
logp	-0.894		Crippen Method
mvol	93.650	ml/mol	McGowan Method
pc	4684.89	kPa	Joback Method
tb	621.93	K	Joback Method
tc	860.37	K	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=C70257&Units=SI

Legend

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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