Guanidine, nitro-

Other names:	Guanidine, nitro-
	«alpha»-Nitroguanidine
	«beta»-Nitroguanidine
	N''-Nitroguanidine
	Picrite
	1-Nitroguanidine
	Guanidine, 1-nitro-
	Guanidine, 1-nitro- (wet)
	Nitroguanidine, wet
	N1-Nitroguanidine
	Picrite (the explosive)
	2-Nitroguanidine
	Guanidine, N-nitro-
	NSC 41036
Inchi:	InChI=1S/CH4N4O2/c2-1(3)4-5(6)7/h(H4,2,3,4)
InchiKey:	IDCPFAYURAQKDZ-UHFFFAOYSA-N
Formula:	CH4N4O2
SMILES:	NC(N)=N[N+](=O)[O-]
Mol. weight [g/mol]:	104.07

Physical Properties

Property code	Value	Unit	Source
hfs	-86.60 ± 2.50	kJ/mol	NIST Webbook
hfs	-97.90 ± 4.20	kJ/mol	NIST Webbook
hfs	-89.10	kJ/mol	NIST Webbook
hsub	142.70 ± 2.00	kJ/mol	NIST Webbook
logp	-1.548		Crippen Method
mcvol	68.010	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	129.30	J/mol×K	298.00	NIST Webbook

Sources

Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C556887&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	

Legend

cps:	Solid phase heat capacity
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume