1-ACETAMIDO-3-NITROGUANIDINE

Other names:	1-Acetamido-3-nitroguanidine
	Acetic acid, 2-[imino(nitroamino)methyl]hydrazide
	Guanidine, 1-acetamido-3-nitro-
	1-Acetamido-2-nitro-guanidine
Inchi:	InChI=1S/C3H7N5O3/c1-2(9)5-6-3(4)7-8(10)11/h1H3,(H,5,9)(H3,4,6,7)
InchiKey:	UYUTZEZTHPTFOY-UHFFFAOYSA-N
Formula:	C3H7N5O3
SMILES:	CC(=O)NNC(=N)N[N+](=O)[O-]
Mol. weight [g/mol]:	161.12

Physical Properties

Property code	Value	Unit	Source
chs	-1987.40 ± 5.90	kJ/mol	NIST Webbook
hfs	-193.60 ± 5.90	kJ/mol	NIST Webbook
logp	-1.657		Crippen Method
mcvol	107.740	ml/mol	McGowan Method
tf	477.53	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	286.87	J/mol×K	708.60	Joback Method
cpg	53.15	J/mol×K	100.12	Joback Method
cpg	53.15	J/mol×K	100.12	Joback Method
cpg	53.15	J/mol×K	100.12	Joback Method
cpg	53.15	J/mol×K	100.12	Joback Method
cpg	53.15	J/mol×K	100.12	Joback Method
cpg	53.15	J/mol×K	100.12	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C42216295&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):	
Cheméo Relay (1.0, beta):	

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
hfs:	Solid phase enthalpy of formation at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point