5-Amino-2-methyl-2H-tetrazole

Other names:	2-Methyl-5-aminotetrazole
	2H-Tetrazol-5-amine, 2-methyl-
	2H-Tetrazole, 5-amino-2-methyl-
	5-Amino-2-methyltetrazole
	2-Methyl-5-tetrazolamine
Inchi:	InChI=1S/C2H5N5/c1-7-5-2(3)4-6-7/h1H3,(H2,3,5)
InchiKey:	AZUKLCJYWVMPML-UHFFFAOYSA-N
Formula:	C2H5N5
SMILES:	Cn1nnc(N)n1
Mol. weight [g/mol]:	99.09
CAS:	6154-04-7

Physical Properties

Property code	Value	Unit	Source
chs	-1708.40 ± 2.50	kJ/mol	NIST Webbook
chs	-1712.50 ± 2.10	kJ/mol	NIST Webbook
hf	298.80 ± 2.80	kJ/mol	NIST Webbook
hf	302.90	kJ/mol	NIST Webbook
hfs	210.90	kJ/mol	NIST Webbook
hfs	206.80 ± 2.60	kJ/mol	NIST Webbook
hsub	92.00 ± 1.10	kJ/mol	NIST Webbook
hsub	92.00	kJ/mol	NIST Webbook
log10ws	-1.69		Crippen Method
logp	-1.208		Crippen Method
mcvol	69.480	ml/mol	McGowan Method
tt	382.00 ± 1.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	90.60 ± 1.10	kJ/mol	341.50	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6154047&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tt:	Triple Point Temperature