

1H-Tetrazole, 1-methyl-

Other names:	N-Methyltetrazole 1-Methyl-1H-tetrazole 1-Methyltetrazole
Inchi:	InChI=1S/C2H4N4/c1-6-2-3-4-5-6/h2H,1H3
InchiKey:	OMAFFHIGWTVZOH-UHFFFAOYSA-N
Formula:	C2H4N4
SMILES:	Cn1cnnn1
Mol. weight [g/mol]:	84.08
CAS:	16681-77-9

Physical Properties

Property code	Value	Unit	Source
chs	-1593.40 ± 0.40	kJ/mol	NIST Webbook
hf	322.90 ± 2.00	kJ/mol	NIST Webbook
hfs	234.70 ± 0.50	kJ/mol	NIST Webbook
hsub	88.20 ± 1.90	kJ/mol	NIST Webbook
hsub	88.20	kJ/mol	NIST Webbook
ie	10.30	eV	NIST Webbook
log10ws	-2.06		Crippen Method
logp	-0.790		Crippen Method
mcvol	59.500	ml/mol	McGowan Method
tt	315.00 ± 1.00	K	NIST Webbook
tt	316.00 ± 1.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	15.70	kJ/mol	315.00	NIST Webbook
hfust	15.70	kJ/mol	315.00	NIST Webbook
hsubt	86.70 ± 1.90	kJ/mol	296.50	NIST Webbook

Sources

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=C16681779&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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

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