

# cis-2,2'-Dimethyl-5,5'-azotetrazole

**Inchi:** InChI=1S/C4H6N10/c1-13-3(7-9-11-13)5-6-4-8-10-12-14(4)2/h1-2H3/b6-5-  
**InchiKey:** HOXMAHGFAGMFCJ-WAYWQWQ TSA-N  
**Formula:** C4H6N10  
**SMILES:** Cn1nnnc1N=Nc1nnnn1C  
**Mol. weight [g/mol]:** 194.16  
**CAS:** 41463-69-8

## Physical Properties

Property code	Value	Unit	Source
chs	-3186.20 ± 4.60	kJ/mol	NIST Webbook
hfs	754.60 ± 4.60	kJ/mol	NIST Webbook
log10ws	-4.68		Crippen Method
logp	-0.851		Crippen Method
mcvol	123.800	ml/mol	McGowan Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C41463698&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

**chs:** Standard solid enthalpy of combustion  
**hfs:** Solid phase enthalpy of formation at standard conditions  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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