

# 3,3,7,7-Tetramethyl-1,5-diazabicyclo[3.3.0]octane

**Other names:** 1H,5H-Pyrazolo[1,2-a]pyrazole, tetrahydro-2,2,6,6-tetramethyl-  
**Inchi:** InChI=1S/C10H20N2/c1-9(2)5-11-7-10(3,4)8-12(11)6-9/h5-8H2,1-4H3  
**InchiKey:** WZRWRONEVORHLU-UHFFFAOYSA-N  
**Formula:** C10H20N2  
**SMILES:** CC1(C)CN2CC(C)(C)CN2C1  
**Mol. weight [g/mol]:** 168.28  
**CAS:** 2940-98-9

## Physical Properties

Property code	Value	Unit	Source
ie	8.64	eV	NIST Webbook
ie	7.53	eV	NIST Webbook
ie	7.53	eV	NIST Webbook
log10ws	-1.44		Crippen Method
logp	1.585		Crippen Method
mcvol	150.000	ml/mol	McGowan Method

## Sources

**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>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C2940989&Units=SI>

## Legend

**ie:** Ionization energy  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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