

# Formamidine, 1-cyano-n,n'-diphenyl-

**Inchi:** InChI=1S/C14H11N3/c15-11-14(16-12-7-3-1-4-8-12)17-13-9-5-2-6-10-13/h1-10H,(H,16,17)1  
**InchiKey:** CPFBI BCZHA OUDH-UHFFFAOYSA-N  
**Formula:** C14H11N3  
**SMILES:** N#CC(=Nc1ccccc1)Nc1ccccc1  
**Mol. weight [g/mol]:** 221.26  
**CAS:** 6343-76-6

## Physical Properties

Property code	Value	Unit	Source
hf	431.55	kJ/mol	Joback Method
hvap	71.62	kJ/mol	Joback Method
log10ws	-3.64		Crippen Method
logp	3.352		Crippen Method
mcpvol	177.640	ml/mol	McGowan Method
pc	2470.27	kPa	Joback Method
tb	801.89	K	Joback Method
tc	1067.09	K	Joback Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C6343766&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions  
**log10ws:** Log10 of Water solubility in mol/l

<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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