

# 2H-Imidazo[4,5-b]pyridin-2-one, 1,3-dihydro-

**Other names:** 1,3-Dihydro-2H-imidazo[4,5-b]pyridin-2-one  
**Inchi:** InChI=1S/C6H5N3O/c10-6-8-4-2-1-3-7-5(4)9-6/h1-3H,(H2,7,8,9,10)  
**InchiKey:** PGDIPOWQYRAOSK-UHFFFAOYSA-N  
**Formula:** C6H5N3O  
**SMILES:** O=c1[nH]c2cccnc2[nH]1  
**Mol. weight [g/mol]:** 135.12  
**CAS:** 16328-62-4

## Physical Properties

Property code	Value	Unit	Source
log10ws	-0.90		Crippen Method
logp	-0.713		Crippen Method
mcvol	92.290	ml/mol	McGowan Method
rinpol	1740.00		NIST Webbook
rinpol	1740.00		NIST Webbook
rinpol	1740.00		NIST Webbook

## Sources

**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=C16328624&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**rinpol:** Non-polar retention indices

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