

# 4-amino-2-hydroxypyrimidine

Other names:	2(1H)-pyrimidinone, 4-amino- 4-amino-2(1H)-pyrimidinone cytosine cytosinimine
Inchi:	InChI=1S/C4H5N3O/c5-3-1-2-6-4(8)7-3/h1-2H,(H3,5,6,7,8)
InchiKey:	OPTASPLRGRRNAP-UHFFFAOYSA-N
Formula:	C4H5N3O
SMILES:	Nc1cc[nH]c(=O)n1
Mol. weight [g/mol]:	111.10

## Physical Properties

Property code	Value	Unit	Source
log10ws	0.49		Crippen Method
logp	-1.130		Crippen Method
mcvol	79.270	ml/mol	McGowan Method

## Sources

Solvation behavior of some nucleic acid bases and nucleosides in water McGowan Method hydrochloride solutions: Viscometric, calorimetric and spectroscopic approach Crippen Method:	<a href="https://www.doi.org/10.1016/j.jct.2015.11.029">https://www.doi.org/10.1016/j.jct.2015.11.029</a> <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a> <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a> <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Volumetric interaction coefficients for some nucleosides in aqueous solution Yotuzoglu et al. hydrochloride solutions at T = (288.15 to 318.15) K and at atmospheric pressure:	<a href="https://www.doi.org/10.1016/j.jct.2012.12.014">https://www.doi.org/10.1016/j.jct.2012.12.014</a> <a href="https://www.doi.org/10.1016/j.jct.2014.10.015">https://www.doi.org/10.1016/j.jct.2014.10.015</a>

## Legend

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

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