

# Uridine, 5-methyl-

**Other names:**

1-«beta»-D-Ribofuranosylthymine  
«beta»-D-Ribofuranoside, thymine-1  
«beta»-D-Ribofuranosylthymine  
Ribosylthymine  
Ribothymidine  
Thymine ribofuranoside  
Thymine riboside  
2,4(1H,3H)-Pyrimidinedione, 5-methyl-1-«beta»-D-ribofuranosyl-  
5-Methyluridine

**Inchi:**

InChI=1S/C10H14N2O6/c1-4-2-12(10(17)11-8(4)16)9-7(15)6(14)5(3-13)18-9/h2,5-7,9,13

**InchiKey:**

DWRXFEITVBNRMK-UHFFFAOYSA-N

**Formula:**

C10H14N2O6

**SMILES:**

Cc1cn(C2OC(CO)C(O)C2O)c(=O)[nH]c1=O

**Mol. weight [g/mol]:**

258.23

**CAS:**

1463-10-1

## Physical Properties

Property code	Value	Unit	Source
affp	908.80	kJ/mol	NIST Webbook
log10ws	0.90		Crippen Method
logp	-3.025		Crippen Method
mcvol	172.320	ml/mol	McGowan Method

## Sources

**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)

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C1463101&Units=SI>

# Legend

<b>affp:</b>	Proton affinity
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

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