Uridine, 5,6-dihydro-

Other names:	Hydrouracil, 1-«beta»-D-ribofuranosyl- Dihydrouridine 2,4(1H,3H)-Pyrimidinedione, dihydro-1-«beta»-D-ribofuranosyl- 5,6-Dihydrouridine
Inchi:	InChI=1S/C9H14N2O6/c12-3-4-6(14)7(15)8(17-4)11-2-1-5(13)10-9(11)16/h4,6-8,12,14-1
InchiKey:	ZPTBLXKRQACLCR-PSQAKQOGSA-N
Formula:	C9H14N2O6
SMILES:	O=C1CCN(C2OC(CO)C(O)C2O)C(=O)N1
Mol. weight [g/mol]:	246.22
CAS:	5627-05-4

Physical Properties

Property code	Value	Unit	Source
affp	874.20	kJ/mol	NIST Webbook
basg	841.70	kJ/mol	NIST Webbook
log10ws	0.51		Crippen Method
logp	-2.633		Crippen Method
mcvol	162.530	ml/mol	McGowan Method

Sources

Crippen Method:	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=C5627054&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

affp:	Proton affinity
basg:	Gas basicity
log10ws:	Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume