



Formula: C₉H₁₂N₂O₆

MW: 244.2

CAS: 58-96-8

MDL: MFCD00006526

TNP: TNP00243



LogP: -0.61

LogS: -1.91

Acceptors: 6

Donors: 4

Rotation Bonds: 1

Chiral Centers: 4

N+O: 8

LIPINSKY: 4

IUPAC: 1-[(4S,2R,3R,5R)-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-1,3-dihydropyrimidine-2,4-dione

Smiles: n1([C@H]2[C@@H]([C@H](O)[C@H](O2)CO)O)c([nH]c(cc1)=O)=O

Merck 13 Reference: Monograph Number: 0009945

Title: Uridine

CAS Registry Number: 58-96-8

Additional Names: 1-b-D-Ribofuranosyluracil; uracil riboside

Molecular Formula: C₉H₁₂N₂O₆

Molecular Weight: 244.20.

Percent Composition: C 44.27%, H 4.95%, N 11.47%, O 39.31%

Literature References: Nucleoside; widely distributed in nature. Prep'd by hydrolysis of yeast nucleic acid with weak alkali, cf. Levene, Bass, *Nucleic Acids* (New York, 1931). Improved isolns: Harris, Thomas, *J. Chem. Soc.* 1948, 1936; Elmore, *ibid.* 1950, 2084; Lorine, Ploeser, *J. Biol. Chem.* 178, 439 (1949). Crystal structure: Green et al., *Chem. Commun.* 1971, 53. Review: *Basic Principles in Nucleic Acid Chemistry* vol. 1, P. O. P. Ts'o, Ed. (Academic Press, New York, 1974) *passim*. See also *Nucleic Acids*.

Properties: Needles from dil alc, mp 165. $[\alpha]_{D20} +4$ (c = 2). uv max (pH 7.3): 261, 205 nm (e