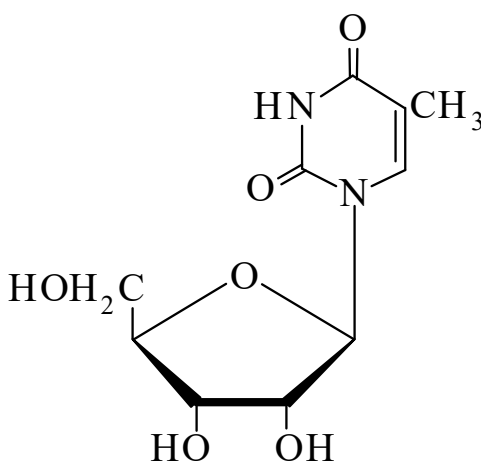




>>Entry Name: 5-Methyluridine

Synonym(s): Thymine riboside. Ribothymidine. Ribosylthymine



CAS Registry Number: 1463-10-1

Molecular Formula: $C_{10}H_{14}N_2O_6$

Molecular Weight: 258.23

Accurate Mass: 258.085188

Percentage Composition: C 46.51%; H 5.46%; N 10.85%; O 37.17%

Use/Importance: Occurs widely as a modified nucleoside in transfer ribonucleic acids

Physical Description: Cryst. (EtOH)

Melting Point: Mp 183-185° (177.5-178.5°)

Optical Rotation: $[\alpha]_D^{23} -8$ (c, 2.3 in H_2O)

Aldrich: 28669-9

Sigma: M9885

References:

Aldrich Library of ^{13}C and 1H FT NMR Spectra, 1992, **3**, 371C, (nmr)

Fox, J.J. *et al.*, *J.A.C.S.*, 1956, **78**, 2117, (synth)

Wittenburg, E., *Chem. Ber.*, 1968, **101**, 1095, (synth)

Watanabe, K.A. *et al.*, *J. Het. Chem.*, 1969, **6**, 109, (synth)

Jones, S.S. *et al.*, *Synthesis*, 1982, 259, (synth)

Tanaka, H. *et al.*, *Tetrahedron*, 1986, **42**, 4187, (synth, pmr)

Pfister, M. *et al.*, *Helv. Chim. Acta*, 1995, **78**, 1705, (synth)