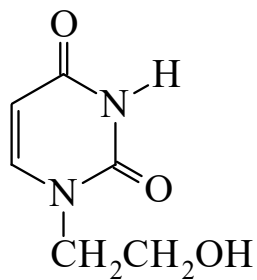




>>Entry Name: 1-(2-Hydroxyethyl)-2,4(1*H*,3*H*)-pyrimidinedione, 9CI

Synonym(s): 1-(2-Hydroxyethyl)uracil, 8CI



CAS Registry Number: 936-70-9

Molecular Formula: C₆H₈N₂O₃

Molecular Weight: 156.141

Accurate Mass: 156.053493

Percentage Composition: C 46.15%; H 5.16%; N 17.94%; O 30.74%

Use/Importance: Starting material for coenzymes and vitamins

Physical Description: Needles (EtOH)

Melting Point: Mp 138-139°

>>Derivative: Ac

CAS Registry Number: 15765-13-6

Molecular Formula: C₈H₁₀N₂O₄

Molecular Weight: 198.178

Accurate Mass: 198.064058

Percentage Composition: C 48.49%; H 5.09%; N 14.14%; O 32.29%

Physical Description: Cryst. (EtOAc/EtOH)

Melting Point: Mp 136-138°

References:

Prystař, M. *et al.*, *Coll. Czech. Chem. Comm.*, 1961, **27**, 1054, (*synth*)

Tuppy, H. *et al.*, *Monatsh. Chem.*, 1964, **95**, 1698, (*synth*)

Pitha, J. *et al.*, *J.O.C.*, 1968, **33**, 1341, (*synth, Ac*)

Ueda, N. *et al.*, *Makromol. Chem.*, 1968, **120**, 13, (*synth*)

Ustyuzhanin, G.E. *et al.*, *Khim. Geterotsikl. Soedin.*, 1978, 684; *Chem. Heterocycl. Compd. (Engl. Transl.)*, 1978, 562, (*synth, uv*)

Shibata, M. *et al.*, *Acta Cryst. C*, 1985, **41**, 1499, (*cryst struct*)

Lapienis, G. *et al.*, *J. Polym. Sci., Part A*, 1990, **28**, 1519, (*synth, pmr, uv*)

Garnaik, B., *Org. Prep. Proced. Int.*, 1995, **27**, 652, (*synth, Ac, pmr*)