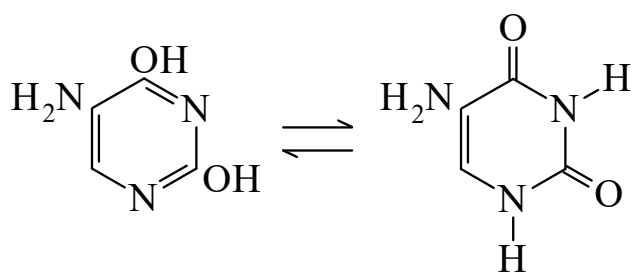




>>Entry Name: 5-Amino-2,4-dihydroxypyrimidine

Synonym(s): 5-Amino-2,4(1*H*,3*H*)-pyrimidinedione, 9Cl. 5-Aminouracil, 8Cl



CAS Registry Number: 932-52-5

Molecular Formula: C₄H₅N₃O₂

Molecular Weight: 127.102

Accurate Mass: 127.038177

Percentage Composition: C 37.80%; H 3.96%; N 33.06%; O 25.18%

Use/Importance: Used as a soln. in 0.1*M* NaOH for photometric detn. of Ru(*III*) (λ_{max} 480 nm, ϵ 7600), Os(*VIII*)

Physical Description: Cryst.

Solubility: Sol. alkalis; spar. sol. H₂O

Aldrich: 85528-6

Fluka: 9640

Sigma: A4005

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **3**, 384B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 829C, (*ir*)

Bogert, M.T. *et al.*, *J.A.C.S.*, 1933, **55**, 1667, (*synth*)

Besley, D.M. *et al.*, *J.C.S.*, 1957, 4997, (*synth*)

Kundra, S.K. *et al.*, *J. Indian Chem. Soc.*, 1976, **53**, 715, (*detn, Os, Ru*)