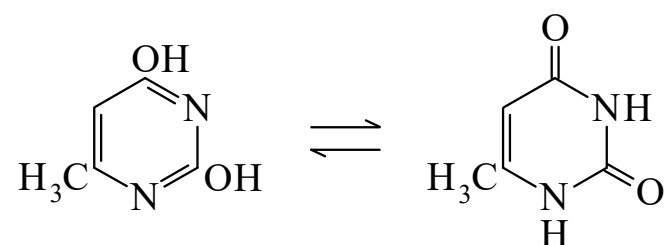




>>Entry Name: 2,4-Dihydroxy-6-methylpyrimidine

Synonym(s): 6-Methyl-2,4(1*H*,3*H*)-pyrimidinedione, 9Cl. 6-Methyluracil



CAS Registry Number: 626-48-2

Extra CAS Registry Numbers(s): 27942-00-3

Molecular Formula: C₅H₆N₂O₂

Molecular Weight: 126.115

Accurate Mass: 126.042928

Percentage Composition: C 47.62%; H 4.80%; N 22.21%; O 25.37%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 311-312°

pKa Value: pK_{a1} 9.68 (25°)

Hazard & Toxicity: Exp. neoplastic agent (very large dose). Exp. reprod. and teratogenic effects. LD₅₀ (rat, orl) 64500 mg/kg

Aldrich: D11520-7

Fluka: 69640

Sigma: M9127

>>Derivative: 1-Me

Synonym(s): 1,6-Dimethyl-2,4(1*H*,3*H*)-pyrimidinedione, 9Cl. 1,6-Dimethyluracil

CAS Registry Number: 1627-27-6

Molecular Formula: C₆H₈N₂O₂

Molecular Weight: 140.141

Accurate Mass: 140.058578

Percentage Composition: C 51.42%; H 5.75%; N 19.99%; O 22.83%

Physical Description: Needles or prisms (EtOH)

Melting Point: Mp 221-222°

>>Derivative: 3-Me

Synonym(s): 3,6-Dimethyl-2,4(1*H*,3*H*)-pyrimidinedione, 9Cl. 3,6-Dimethyluracil

CAS Registry Number: 19674-60-3

Molecular Formula: C₆H₈N₂O₂

Molecular Weight: 140.141

Accurate Mass: 140.058578

Percentage Composition: C 51.42%; H 5.75%; N 19.99%; O 22.83%

Physical Description: Long prisms (H₂O)

Melting Point: Mp 274° (261-262°)

>>Derivative: 1,3-Di-Me

Synonym(s): 1,3,6-Trimethyl-2,4(1*H*,3*H*)-pyrimidinedione. 1,3,6-Trimethyluracil

Molecular Formula: C₇H₁₀N₂O₂

Molecular Weight: 154.168

Accurate Mass: 154.074228

Percentage Composition: C 54.54%; H 6.54%; N 18.17%; O 20.76%

Physical Description: Cryst.

Melting Point: Mp 113°

>>Derivative: 1-Et

Synonym(s): 1-Ethyl-6-methyl-2,4(1*H*,3*H*)-pyrimidinedione, 9Cl. 1-Ethyl-6-methyluracil

Molecular Formula: C₇H₁₀N₂O₂

Molecular Weight: 154.168

Accurate Mass: 154.074228

Percentage Composition: C 54.54%; H 6.54%; N 18.17%; O 20.76%

Physical Description: Cryst. (EtOAc/petrol)

Melting Point: Mp 197-198°