



>>Entry Name: 2-Amino-4-hydroxy-6-methylpyrimidine

Synonym(s): 2-Amino-6-methyl-4(1*H*)-pyrimidinone, 9Cl. 6-Methylisocytosine

CAS Registry Number: 3977-29-5

Molecular Formula: C₅H₇N₃O

Molecular Weight: 125.13

Accurate Mass: 125.058912

Percentage Composition: C 47.99%; H 5.64%; N 33.58%; O 12.79%

General Statement: 1*H*-form is present in cryst. state; tautom. to 3*H*-form possible in soln.

Physical Description: Needles (H₂O)

Melting Point: Mp 297-299 dec.°

Solubility: Spar. sol. H₂O, org. solvs.; sol. acids, alkalis

Other Data: Aq. soln. reacts alkaline

Aldrich: A5800-3

Sigma: A7629

>>Derivative: Hydrochloride

Melting Point: Mp 295°

>>Derivative: Sulfate

Melting Point: Mp 180°

>>Derivative: 2-*N*-Me

Molecular Formula: C₆H₉N₃O

Molecular Weight: 139.157

Accurate Mass: 139.074562

Percentage Composition: C 51.79%; H 6.52%; N 30.20%; O 11.50%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 202°

>>Variant: *OH*-form

Molecular Formula: C₅H₇N₃O

Molecular Weight: 125.13

Accurate Mass: 125.058912

Percentage Composition: C 47.99%; H 5.64%; N 33.58%; O 12.79%

>>Derivative: Me ether

CAS Registry Number: 7749-47-5

Molecular Formula: C₆H₉N₃O

Molecular Weight: 139.157

Accurate Mass: 139.074562

Percentage Composition: C 51.79%; H 6.52%; N 30.20%; O 11.50%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 158-158.5°

Aldrich: 37946-8

Fluka: 8390

>>Derivative: Me ether; nitrate

Melting Point: Mp 175° (dec.)

>>Derivative: Me ether; picrate

Melting Point: Mp 220-221° (dec.)