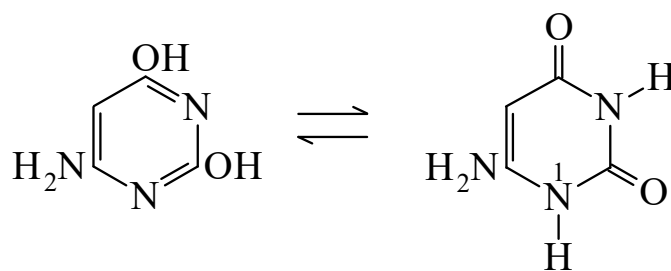




>>Entry Name: 4-Amino-2,6-dihydroxypyrimidine

Synonym(s): 6-Amino-2,4(1*H*,3*H*)-pyrimidinedione, 9Cl. 6-Amino-2,4-pyrimidinediol. 6-Aminouracil



CAS Registry Number: 873-83-6

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%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 325°

Aldrich: A5060-6

Fluka: 9630

Sigma: A4629

>>Variant: Dioxo-form

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%

>>Derivative: 1-Me

CAS Registry Number: 2434-53-9

Molecular Formula: C₅H₇N₃O₂

Molecular Weight: 141.129

Accurate Mass: 141.053827

Percentage Composition: C 42.55%; H 5.00%; N 29.77%; O 22.67%

Physical Description: Cryst.

Melting Point: Mp 308-310°

Aldrich: 34679-9

>>Derivative: 1,3-Di-Me

CAS Registry Number: 6642-31-5

Molecular Formula: C₆H₉N₃O₂

Molecular Weight: 155.156

Accurate Mass: 155.069477

Percentage Composition: C 46.45%; H 5.85%; N 27.08%; O 20.62%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 293°

Aldrich: A5215-3

Sigma: A0765

>>Derivative: 1-*O*-β-D-Ribofuranosyl

Synonym(s): 6-Aminouridine, 8Cl

CAS Registry Number: 27960-35-6

Molecular Formula: C₉H₁₃N₃O₆

Molecular Weight: 259.218

Accurate Mass: 259.080437

Percentage Composition: C 41.70%; H 5.05%; N 16.21%; O 37.03%

Melting Point: Mp 190-191 dec.°

Optical Rotation: [α]_D²⁵ +6.2 (c, 0.42 in H₂O)

pKa Value: pK_a 10

UV: [neutral] λ_{max} 272 (ε 24800) (H₂O)