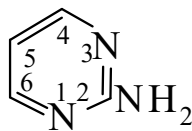




>>Entry Name: 2-Aminopyrimidine

Synonym(s): 2-Pyrimidinamine, 9CI



CAS Registry Number: 109-12-6

Molecular Formula: C₄H₅N₃

Molecular Weight: 95.104

Accurate Mass: 95.048347

Percentage Composition: C 50.52%; H 5.30%; N 44.18%

Melting Point: Mp 127-128° (124-125°)

pKa Value: pK_{a1} 3.45; pK_{a2} -4.1 (H₂SO₄ aq.)

Other Data: Sublimes

Aldrich: A7860-8

Fluka: 9380

Rare Chemicals Library: S18790-9

Sigma: A3255

>>Derivative: N¹-Oxide

CAS Registry Number: 35034-15-2

Molecular Formula: C₄H₅N₃O

Molecular Weight: 111.103

Accurate Mass: 111.043262

Percentage Composition: C 43.24%; H 4.54%; N 37.82%; O 14.40%

Melting Point: Mp 186-188°

>>Derivative: 2-N-Me

Synonym(s): 2-(Methylamino)pyrimidine

CAS Registry Number: 931-61-3

Molecular Formula: C₅H₇N₃

Molecular Weight: 109.13

Accurate Mass: 109.063997

Percentage Composition: C 55.03%; H 6.47%; N 38.50%

Physical Description: Needles

Melting Point: Mp 63-64° (58-59°)

pKa Value: pK_a 3.79 (22°)

>>Derivative: 2-N-Me, picrate

Melting Point: Mp 195-196°

>>Derivative: 2-N-Me, N¹-oxide

CAS Registry Number: 84539-19-5

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%

Melting Point: Mp 124-126°

>>Derivative: 2-N,N-Di-Me

Synonym(s): 2-(Dimethylamino)pyrimidine

CAS Registry Number: 5621-02-3

Molecular Formula: C₆H₉N₃

Molecular Weight: 123.157

Accurate Mass: 123.079647

Percentage Composition: C 58.52%; H 7.37%; N 34.12%

Melting Point: Mp 169-171° (as picrate)

Boiling Point: Bp₄₀ 105-110°

pKa Value: pK_a 4.15 (20°)