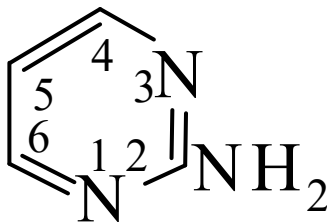




>>Entry Name: 2-Aminopyrimidine

Synonym(s): 2-Pyrimidinamine, 9CI



CAS Registry Number: 109-12-6

Molecular Formula: C<sub>4</sub>H<sub>5</sub>N<sub>3</sub>

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<sub>a1</sub> 3.45; pK<sub>a2</sub> -4.1 (H<sub>2</sub>SO<sub>4</sub> aq.)

Other Data: Sublimes

Aldrich: A7860-8

Fluka: 9380

Rare Chemicals Library: S18790-9

Sigma: A3255

>>Derivative: N<sup>1</sup>-Oxide

CAS Registry Number: 35034-15-2

Molecular Formula: C<sub>4</sub>H<sub>5</sub>N<sub>3</sub>O

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: C<sub>5</sub>H<sub>7</sub>N<sub>3</sub>

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<sub>a</sub> 3.79 (22°)

>>Derivative: 2-N-Me, picrate

Melting Point: Mp 195-196°

>>Derivative: 2-N-Me, N<sup>1</sup>-oxide

CAS Registry Number: 84539-19-5

Molecular Formula: C<sub>5</sub>H<sub>7</sub>N<sub>3</sub>O

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°