



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

Synonym(s): 2,6-Dimethyl-4-pyrimidinamine, 9Cl. 6-Amino-2,4-dimethylpyrimidine. Cyanmethine

CAS Registry Number: 461-98-3

Molecular Formula: C₆H₉N₃

Molecular Weight: 123.157

Accurate Mass: 123.079647

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

Physical Description: Cryst. (EtOH)

Melting Point: Mp 191-192° (183°)

Solubility: Spar. sol. H₂O, mod. sol. EtOH

pKa Value: pK_{a1} 6.9; pK_{a2} -0.14 (20°)

Other Data: Subl.; forms addn. compds. with AgNO₃

>>Derivative: 4-*N*-Ac

CAS Registry Number: 33721-00-5

Molecular Formula: C₈H₁₁N₃O

Molecular Weight: 165.194

Accurate Mass: 165.090212

Percentage Composition: C 58.17%; H 6.71%; N 25.44%; O 9.69%

Melting Point: Mp 186-187°

>>Derivative: 4-*N*-Phenyl

Synonym(s): 4-Anilino-2,6-dimethylpyrimidine

Molecular Formula: C₁₂H₁₃N₃

Molecular Weight: 199.255

Accurate Mass: 199.110947

Percentage Composition: C 72.34%; H 6.58%; N 21.09%

Melting Point: Mp 104°

References:

Takatori, K. *et al.*, *CA*, 1957, **52**, 5422

Osborne, D.R. *et al.*, *J. Het. Chem.*, 1964, **1**, 145