



>>Entry Name: 2,5-Pyridinediamine, 9CI

Synonym(s): 2,5-Diaminopyridine

CAS Registry Number: 4318-76-7

Molecular Formula: C₅H₇N₃

Molecular Weight: 109.13

Accurate Mass: 109.063997

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

Melting Point: Mp 107-110°

pKa Value: pK_{a1} 6.48; pK_{a2} 2.13 (20°)

Other Data: Rapidly dec. by air and light. Fluor. in aq. soln.

Hazard & Toxicity: LD₅₀ (mus, ipr) 50 mg/kg

>>Derivative: 2,5-*N*-Di-Ac

CAS Registry Number: 29958-22-3

Molecular Formula: C₉H₁₁N₃O₂

Molecular Weight: 193.205

Accurate Mass: 193.085127

Percentage Composition: C 55.95%; H 5.74%; N 21.75%; O 16.56%

Melting Point: Mp 289-290°

>>Derivative: 2,5-*N*-Dibenzoyl

CAS Registry Number: 69952-40-5

Molecular Formula: C₁₉H₁₅N₃O₂

Molecular Weight: 317.346

Accurate Mass: 317.116427

Percentage Composition: C 71.91%; H 4.76%; N 13.24%; O 10.08%

Melting Point: Mp 229-230°

>>Derivative: 2-*N*-Me

Synonym(s): 5-Amino-2-(methylamino)pyridine

CAS Registry Number: 28020-36-2

Molecular Formula: C₆H₉N₃

Molecular Weight: 123.157

Accurate Mass: 123.079647

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

Other Data: No phys. props. descr.

References:

Räth, C. *et al.*, *Annalen*, 1928, **467**, 3, (*synth*)

Streef, J.W. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1966, **85**, 803, (*synth*)

Takemoto, T. *et al.*, *J. Med. Chem.*, 1994, **37**, 18, (*N-Me, synth, ir, pmr*)