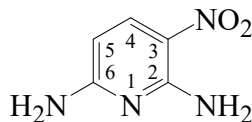




>>Entry Name: **2,6-Diamino-3-nitropyridine**

Synonym(s): 3-Nitro-2,6-pyridinediamine, 9Cl



CAS Registry Number: 3346-63-2

Molecular Formula: C₅H₆N₄O₂

Molecular Weight: 154.128

Accurate Mass: 154.049076

Percentage Composition: C 38.96%; H 3.92%; N 36.35%; O 20.76%

Physical Description: Orange or yellow needles (EtOH)

Melting Point: Mp 237-238°

>>Derivative: N¹-Oxide

CAS Registry Number: 24187-90-4

Molecular Formula: C₅H₆N₄O₃

Molecular Weight: 170.127

Accurate Mass: 170.043991

Percentage Composition: C 35.30%; H 3.55%; N 32.93%; O 28.21%

Physical Description: Yellow cryst. (DMF)

Melting Point: Mp 292-294°

>>Derivative: 2-N-Me

CAS Registry Number: 221635-97-8

Molecular Formula: C₆H₈N₄O₂

Molecular Weight: 168.155

Accurate Mass: 168.064726

Percentage Composition: C 42.86%; H 4.80%; N 33.32%; O 19.03%

Physical Description: Yellow needles (toluene)

Melting Point: Mp 216-218°

>>Derivative: 6-N-Me

CAS Registry Number: 144435-15-4

Molecular Formula: C₆H₈N₄O₂

Molecular Weight: 168.155

Accurate Mass: 168.064726

Percentage Composition: C 42.86%; H 4.80%; N 33.32%; O 19.03%

Physical Description: Orange cryst. (CHCl₃)

Melting Point: Mp 238.5-240°

>>Derivative: 2,6-N-Di-Me

CAS Registry Number: 73895-39-3

Molecular Formula: C₇H₁₀N₄O₂

Molecular Weight: 182.182

Accurate Mass: 182.080376

Percentage Composition: C 46.15%; H 5.53%; N 30.75%; O 17.56%

Physical Description: Yellow needles (hexane)

Melting Point: Mp 166-168°

References:

- Chichibabin, A.E. *et al.*, *CA*, 1924, **18**, 1496, (*synth*)
den Hertog, H.J. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1953, **72**, 125-134, (*synth*)
Boyer, J.H. *et al.*, *J.A.C.S.*, 1956, **78**, 423-425, (*synth*)
Taylor, E.C. *et al.*, *J.O.C.*, 1965, **30**, 3153-3155, (*synth*)
Wozniak, M. *et al.*, *Annalen*, 1991, 875-878, (*synth*, *pmr*)
Troschütz, R. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1992, **325**, 785-789, (*synth*, *pmr*, *cmr*)
Szpakiewicz, B. *et al.*, *J. Prakt. Chem.*, 1999, **341**, 75-78, (*2-N-Me*, *6-N-Me*, *2,6-N-di-Me*)