



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

Synonym(s): 2,6-Dimethyl-4-pyridinamine, 9Cl. 4-Amino-2,6-lutidine, 8Cl

CAS Registry Number: 3512-80-9

Molecular Formula: C<sub>7</sub>H<sub>10</sub>N<sub>2</sub>

Molecular Weight: 122.169

Accurate Mass: 122.084398

Percentage Composition: C 68.82%; H 8.25%; N 22.93%

Physical Description: Cryst. (H<sub>2</sub>O or C<sub>6</sub>H<sub>6</sub>)

Melting Point: Mp 192-193° (186°)

Boiling Point: Bp 246°

>>Derivative: 4-*N*-Ac

Molecular Formula: C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O

Molecular Weight: 164.207

Accurate Mass: 164.094963

Percentage Composition: C 65.83%; H 7.37%; N 17.06%; O 9.74%

Melting Point: Mp 113°

>>Derivative: *N*-Me

Molecular Formula: C<sub>8</sub>H<sub>12</sub>N<sub>2</sub>

Molecular Weight: 136.196

Accurate Mass: 136.100048

Percentage Composition: C 70.55%; H 8.88%; N 20.57%

Melting Point: Mp 138-148° (dec.)

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

Synonym(s): 4-(Dimethylamino)-2,6-dimethylpyridine

Molecular Formula: C<sub>9</sub>H<sub>14</sub>N<sub>2</sub>

Molecular Weight: 150.223

Accurate Mass: 150.115698

Percentage Composition: C 71.96%; H 9.39%; N 18.65%

Physical Description: Extremely hygroscopic cryst. (hexane)

Melting Point: Mp 38-39°

References:

Merckwald, H., *Ber.*, 1894, **27**, 1325, (*synth*)

Kato, T. *et al.*, *Chem. Pharm. Bull.*, 1965, **13**, 963, (*synth*)

Bossio, R. *et al.*, *J. Het. Chem.*, 1986, **23**, 889, (*synth, ir, pmr*)

Carpino, L.A. *et al.*, *J.O.C.*, 1996, **61**, 2460, (*N,N-di-Me, synth, pmr*)

Tanga, M.J. *et al.*, *J. Het. Chem.*, 1997, **34**, 717-727, (*synth, ir, uv, pmr, cmr, N-Me*)