



>>Entry Name: 3-Amino-5-bromopyridine, 8Cl

Synonym(s): 5-Bromo-3-pyridinamine, 9Cl

CAS Registry Number: 13535-01-8

Molecular Formula: C₅H₅BrN₂

Molecular Weight: 173.012

Accurate Mass: 171.983609

Percentage Composition: C 34.71%; H 2.91%; Br 46.18%; N 16.19%

Physical Description: Cryst. (petrol)

Melting Point: Mp 66-67° (64-65°)

Boiling Point: Bp₁₂ 153°. Bp_{0.5} 102-105°

>>Derivative: N¹-Oxide

CAS Registry Number: 28733-47-3

Molecular Formula: C₅H₅BrN₂O

Molecular Weight: 189.011

Accurate Mass: 187.978524

Percentage Composition: C 31.77%; H 2.67%; Br 42.27%; N 14.82%; O 8.46%

Melting Point: Mp 125-130° (as hydrochloride)

Other Data: CAS no. refers to the hydrochloride

>>Derivative: 3-N-Ac

CAS Registry Number: 15862-46-1

Molecular Formula: C₇H₇BrN₂O

Molecular Weight: 215.049

Accurate Mass: 213.994174

Percentage Composition: C 39.10%; H 3.28%; Br 37.16%; N 13.03%; O 7.44%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 127-128°

>>Derivative: 3-N-Benzoyl

CAS Registry Number: 15862-47-2

Melting Point: Mp 130°

>>Derivative: 3-N-Me

Molecular Formula: C₆H₇BrN₂

Molecular Weight: 187.039

Accurate Mass: 185.999259

Percentage Composition: C 38.53%; H 3.77%; Br 42.72%; N 14.98%

Melting Point: Mp 87-89°

Boiling Point: Bp₁₃ 152-153°

>>Derivative: 3-N,N-Di-Me

Molecular Formula: C₇H₉BrN₂

Molecular Weight: 201.066

Accurate Mass: 200.014909

Percentage Composition: C 41.82%; H 4.51%; Br 39.74%; N 13.93%

Physical Description: Cryst. (petrol)

Melting Point: Mp 57-58°

References:

Czuba, W., *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1963, **82**, 988-996, (*synth*)

Batkowski, T., *Pol. J. Chem. (Rocz. Chem.)*, 1967, **41**, 729-741; *CA*, **67**, 82061, (*synth*)

Cumper, C.W.N. *et al.*, *J.C.S.(B)*, 1968, 649-651, (*uv*)

Greco, C.V. *et al.*, *J. Het. Chem.*, 1970, **7**, 761-766, (*N-oxide, synth, uv*)

Ziegler, F.E. *et al.*, *J.A.C.S.*, 1973, **95**, 7458-7464, (*synth*)