



>>Entry Name: 6-Aminoquinoline

Synonym(s): 6-Quinolinamine, 9Cl. 6-Quinolylamine

CAS Registry Number: 580-15-4

Molecular Formula: $C_9H_8N_2$

Molecular Weight: 144.176

Accurate Mass: 144.068748

Percentage Composition: C 74.98%; H 5.59%; N 19.43%

Physical Description: Cryst. + 2H₂O (H₂O), cryst. (Et₂O)

Melting Point: Mp 114° (anhyd.). Mp 116°

Boiling Point: Bp_{0.3} 166°

pKa Value: pK_a 5.59 (20°)

Other Data: Subl.

Aldrich: 27558-1

Fluka: 7342

>>Derivative: Methiodide

Physical Description: Reddish-brown cryst. (EtOH)

Melting Point: Mp 138°

>>Derivative: *N*-Ac

CAS Registry Number: 22433-76-7

Molecular Formula: $C_{11}H_{10}N_2O$

Molecular Weight: 186.213

Accurate Mass: 186.079313

Percentage Composition: C 70.95%; H 5.41%; N 15.04%; O 8.59%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 138°

>>Derivative: *N*-Benzoyl

Molecular Formula: $C_{16}H_{12}N_2O$

Molecular Weight: 248.284

Accurate Mass: 248.094963

Percentage Composition: C 77.40%; H 4.87%; N 11.28%; O 6.44%

Melting Point: Mp 169°

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

CAS Registry Number: 67557-81-7

Molecular Formula: $C_{11}H_{12}N_2$

Molecular Weight: 172.229

Accurate Mass: 172.100048

Percentage Composition: C 76.71%; H 7.02%; N 16.27%

Melting Point: Mp 56-58°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 437A, (nmr)

Hamer, F.M., *J.C.S.*, 1921, **119**, 1436

Sykes, W.O., *J.C.S.*, 1956, 3087

Kotler, J., *Acta Pol. Pharm.*, 1966, **23**, 97; *CA*, **65**, 10561