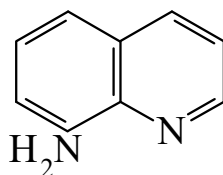




>>Entry Name: 8-Aminoquinoline

Synonym(s): 8-Quinolinamine, 9CI



CAS Registry Number: 578-66-5

Molecular Formula: C₉H₈N₂

Molecular Weight: 144.176

Accurate Mass: 144.068748

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

Use/Importance: Used as a 0.05% soln. in dil. aq. HCl for photometric detn. of Pd; gravimetric detn. of Cu

Biological Use/Importance: Has tuberculostatic props.

Physical Description: Yellow cryst. (EtOH or petrol)

Melting Point: Mp 70°. Mp 63-64 65°

Boiling Point: Bp₂₀ 157-162°

pKa Value: pK_a 3.95 (20°)

Other Data: Steam-volatile

Aldrich: 26078-9

Fluka: 7350

Sigma: A5053

>>Derivative: Hydrochloride

Physical Description: Dark-red cryst.

Melting Point: Mp 208-209°

>>Derivative: 8-*N*-Ac

CAS Registry Number: 33757-42-5

Molecular Formula: C₁₁H₁₀N₂O

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. (EtOH)

Melting Point: Mp 103°

>>Derivative: 8-*N*-Benzoyl

CAS Registry Number: 33757-48-1

Molecular Formula: C₁₆H₁₂N₂O

Molecular Weight: 248.284

Accurate Mass: 248.094963

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

Physical Description: Cryst. (EtOH)

Melting Point: Mp 98°

>>Derivative: 8-*N*-Methanesulfonyl

Synonym(s): *N*-8-Quinolinylmethanesulfonamide, 8CI

CAS Registry Number: 10374-76-2

Molecular Formula: C₁₀H₁₀N₂O₂S

Molecular Weight: 222.267

Accurate Mass: 222.046298

Percentage Composition: C 54.04%; H 4.53%; N 12.60%; O 14.40%; S 14.43%

Use/Importance: Used for extraction-sepn. of Cu(*II*), Co, Zn, Cd, Pb, Hg(*II*)

Physical Description: Cryst. (cyclohexane)

Melting Point: Mp 148-149°

Solubility: Sol. PhCl, cyclohexane, toluene