



>>Entry Name: 4-Aminoquinoline

Synonym(s): 4-Quinolinamine, 9Cl. γ -Aminoquinoline

CAS Registry Number: 578-68-7

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: Needles + 1H₂O (H₂O or EtOH aq.)

Melting Point: Mp 70°. Mp 154-155° (anhyd.)

pKa Value: pK_a 9.13 (20°)

>>Derivative: Methiodide

Physical Description: Cryst. (EtOH)

Melting Point: Mp 224°

>>Derivative: 4-*N*-Ac

CAS Registry Number: 32433-28-6

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. + 1H₂O (H₂O)

Melting Point: Mp 176° (anhyd.)

>>Derivative: 4-*N*-Me

CAS Registry Number: 16401-66-4

Molecular Formula: $C_{10}H_{10}N_2$

Molecular Weight: 158.202

Accurate Mass: 158.084398

Percentage Composition: C 75.92%; H 6.37%; N 17.71%

Melting Point: Mp 230-231°

>>Derivative: 4-*N,N*-Di-Me

CAS Registry Number: 31401-47-5

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 112-113°

>>Derivative: 4-*N*-Ph

Synonym(s): 4-Anilinoquinoline

CAS Registry Number: 30696-07-2

Molecular Formula: $C_{15}H_{12}N_2$

Molecular Weight: 220.273

Accurate Mass: 220.100048

Percentage Composition: C 81.79%; H 5.49%; N 12.72%

Melting Point: Mp 198°

>>Derivative: *N*-Nitro

Synonym(s): 4-Nitraminoquinoline. 4-Quinolylnitramine

Molecular Formula: $C_9H_7N_3O_2$

Molecular Weight: 189.173

Accurate Mass: 189.053827

Percentage Composition: C 57.14%; H 3.73%; N 22.21%; O 16.92%

Physical Description: Yellow needles + H₂O (H₂O)

Melting Point: Mp 207 dec.°