



>>Entry Name: 5-Amino-8-hydroxyquinoline

ENTRY UNDER REVIEW

Synonym(s): 5-Amino-8-quinolinol, 9Cl

CAS Registry Number: 13207-66-4

Molecular Formula: $C_9H_8N_2O$

Molecular Weight: 160.175

Accurate Mass: 160.063663

Percentage Composition: C 67.49%; H 5.03%; N 17.49%; O 9.99%

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 143°

pKa Value: pK_{a1} 5.67; pK_{a2} 11.24 (20°)

Rare Chemicals Library: S1130-5

>>Derivative: Hydrochloride (1:2)

CAS Registry Number: 21302-43-2

Physical Description: Orange-yellow solid

Melting Point: Mp 241-243°. Mp 279° (dec.)

Aldrich: 30552-9

>>Derivative: *O,N*-Di-Ac

Molecular Formula: $C_{13}H_{12}N_2O_3$

Molecular Weight: 244.249

Accurate Mass: 244.084793

Percentage Composition: C 63.93%; H 4.95%; N 11.47%; O 19.65%

Physical Description: Plates (EtOH)

Melting Point: Mp 206-207°

>>Derivative: Me ether

Synonym(s): 5-Amino-8-methoxyquinoline

CAS Registry Number: 70945-35-6

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

Molecular Weight: 174.202

Accurate Mass: 174.079313

Percentage Composition: C 68.95%; H 5.79%; N 16.08%; O 9.18%

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 156°

>>Derivative: Me ether, *N*-Ac

Melting Point: Mp 179°

>>Derivative: Et ether

Synonym(s): 5-Amino-8-ethoxyquinoline

CAS Registry Number: 75793-53-2

Molecular Formula: $C_{11}H_{12}N_2O$

Molecular Weight: 188.229

Accurate Mass: 188.094963

Percentage Composition: C 70.19%; H 6.43%; N 14.88%; O 8.50%

Physical Description: Yellow plates

Melting Point: Mp 114°

References:

Balaban, I.E., *J.C.S.*, 1932, 2625

Helin, A.F. *et al.*, *J.O.C.*, 1952, **17**, 229

Prodinger, W. *et al.*, *Monatsh. Chem.*, 1954, **85**, 23

Sleath, P.R. *et al.*, *J.A.C.S.*, 1985, **107**, 3378, (*synth*)