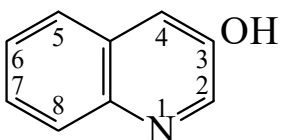




>>Entry Name: 3-Quinolinol, 9CI

Synonym(s): 3-Hydroxyquinoline



CAS Registry Number: 580-18-7

Related CAS Registry Numbers(s): 1321-40-0

Molecular Formula: C<sub>9</sub>H<sub>7</sub>NO

Molecular Weight: 145.16

Accurate Mass: 145.052764

Percentage Composition: C 74.47%; H 4.86%; N 9.65%; O 11.02%

Biological Source: Alkaloid from aerial parts of *Ruta montana*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 201-202°

pKa Value: pK<sub>a1</sub> 4.28; pK<sub>a2</sub> 8.08 (20°)

>>Derivative: O-Ac

Molecular Formula: C<sub>11</sub>H<sub>9</sub>NO<sub>2</sub>

Molecular Weight: 187.198

Accurate Mass: 187.063329

Percentage Composition: C 70.58%; H 4.85%; N 7.48%; O 17.09%

Physical Description: Needles (petrol)

Melting Point: Mp 37.5°

>>Derivative: Me ether

Synonym(s): 3-Methoxyquinoline

CAS Registry Number: 6931-17-5

Molecular Formula: C<sub>10</sub>H<sub>9</sub>NO

Molecular Weight: 159.187

Accurate Mass: 159.068414

Percentage Composition: C 75.45%; H 5.70%; N 8.80%; O 10.05%

Physical Description: Pale-brown oil

Melting Point: Mp 222° (as picrate)

>>Derivative: Et ether

Synonym(s): 3-Ethoxyquinoline

Molecular Formula: C<sub>11</sub>H<sub>11</sub>NO

Molecular Weight: 173.214

Accurate Mass: 173.084064

Percentage Composition: C 76.28%; H 6.40%; N 8.09%; O 9.24%

Melting Point: Mp 224-228° (as picrate)

#### References:

*Org. Synth.*, 1960, **40**, 54, (*synth*)

Kaneko, C. *et al.*, *Chem. Pharm. Bull.*, 1967, **15**, 663, (*synth, uv*)

Naumann, C. *et al.*, *Synthesis*, 1990, 279, (*synth, ir, pmr*)

Ulubelen, A. *et al.*, *Fitoterapia*, 1991, **62**, 279, (*isol, pmr, ms*)