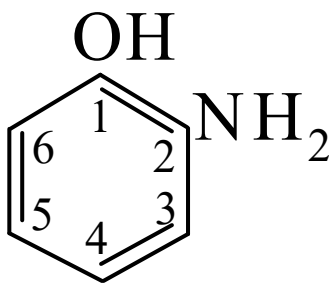




>>Entry Name: 2-Aminophenol, 9CI

Synonym(s): *o*-Hydroxyaniline. 1-Amino-2-hydroxybenzene. **Questionmycin B**



CAS Registry Number: 95-55-6

Extra CAS Registry Numbers(s): 27598-85-2

Molecular Formula: C<sub>6</sub>H<sub>7</sub>NO

Molecular Weight: 109.127

Accurate Mass: 109.052764

Percentage Composition: C 66.04%; H 6.47%; N 12.84%; O 14.66%

Source/Synthesis: Manuf. by redn. of 2-nitrophenol

Biological Source: Isol. from *Streptomyces* sp. and *Penicillium notatum*. Also isol. from a purple bacterium from a sponge of *Adocia* sp.

Use/Importance: Electrochem. polym. gives electroactive polymer films. Dye intermediate

Biological Use/Importance: Tuberculostatic. Possesses antibacterial props.

Physical Description: Cryst. (H<sub>2</sub>O)

Melting Point: Mp 174°

Solubility: BERDY SOL: Sol. MeOH, H<sub>2</sub>O, Et<sub>2</sub>O, EtOAc; fairly sol. CCl<sub>4</sub>; poorly sol. hexane

pKa Value: pK<sub>a1</sub> 4.78; pK<sub>a2</sub> 9.97 (20°)

UV: [acid] λ<sub>max</sub> 235 (ε 28400); 467 (ε 1700) (0.25*N* HCl) (Derep) [base] λ<sub>max</sub> 335 (ε 1230) (0.1*N* KOH) (Derep) [neutral] λ<sub>max</sub> 240 (ε 26300); 435 (ε 2330) (pH 7.4) (Derep) [neutral] λ<sub>max</sub> 229 (); 283 () (H<sub>2</sub>O) (Berdy) [acid] λ<sub>max</sub> 268 () (HCl) (Berdy) [base] λ<sub>max</sub> 300 () (NaOH) (Berdy)

Other Data: Free base readily oxidised

**Hazard & Toxicity:** Eye and respiratory tract irritant. LD<sub>50</sub> (rat, orl) 1300 mg/kg. LD<sub>50</sub> (mus, ipr) 350 mg/kg. Exp. reprod. and teratogenic effect

Aldrich: A7130-1

Fluka: 9120

>>Derivative: Hydrochloride

CAS Registry Number: 51-19-4

Melting Point: Mp 207°

Rare Chemicals Library: S37856-9

>>Derivative: *N*-Formyl

Synonym(s): *N*-(2-Hydroxyphenyl)formamide, 9CI. 2-Hydroxyformanilide. *N*-Formylquestionmycin B

CAS Registry Number: 2843-27-8

Molecular Formula: C<sub>7</sub>H<sub>7</sub>NO<sub>2</sub>

Molecular Weight: 137.138

Accurate Mass: 137.047679

Percentage Composition: C 61.31%; H 5.14%; N 10.21%; O 23.33%

Biological Source: Prod. by *Penicillium notatum*

Physical Description: Needles (H<sub>2</sub>O)

Melting Point: Mp 129-129.5°

UV: [neutral] λ<sub>max</sub> 218 (ε 10280); 245 (ε 11910); 286 (ε 6295) (MeOH) (Berdy)

Rare Chemicals Library: S36247-6