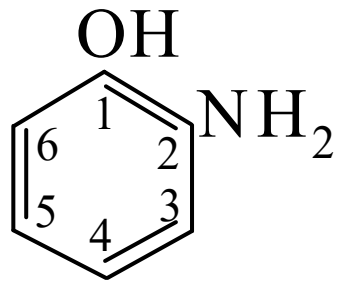
>>**Entry Name: 2-Aminophenol,** 9CI
Synonym(s): *o*-Hydroxyaniline. 1-Amino-2-hydroxybenzene. **Questiomycin B**



CAS Registry Number: 95-55-6
Extra CAS Registry Numbers(s): 27598-85-2

Molecular Formula: C_6H_7NO
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_2O)
Melting Point: Mp 174°
Solubility: BERDY SOL: Sol. MeOH, H_2O, Et_2O, EtOAc; fairly sol. CCl_4; poorly sol. hexane
pKa Value: pK_{a1} 4.78; pK_{a2} 9.97 (20°)
UV: [acid] λ_{max} 235 (ε 28400); 467 (ε 1700) (0.25*N* HCl) (Derep) [base] λ_{max} 335 (ε 1230) (0.1*N* KOH) (Derep) [neutral] λ_{max} 240 (ε 26300); 435 (ε 2330) (pH 7.4) (Derep) [neutral] λ_{max} 229 (); 283 () (H_2O) (Berdy) [acid] λ_{max} 268 () (HCl) (Berdy) [base] λ_{max} 300 () (NAOH) (Berdy)
Other Data: Free base readily oxidised
Hazard & Toxicity: Eye and respiratory tract irritant. LD_{50} (rat, orl) 1300 mg/kg. LD_{50} (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*-Formylquestiomycin B

CAS Registry Number: 2843-27-8

Molecular Formula: $C_7H_7NO_2$
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_2O)
Melting Point: Mp 129-129.5°
UV: [neutral] λ_{max} 218 (ε 10280); 245 (ε 11910); 286 (ε 6295) (MeOH) (Berdy)
Rare Chemicals Library: S36247-6

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