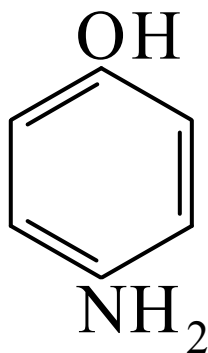




>>Entry Name: 4-Aminophenol, 9CI

Synonym(s): *p*-Hydroxyaniline. Rodinal. Unal. Ursol P



CAS Registry Number: 123-30-8

Related CAS Registry Numbers(s): 1613-90-7 40339-42-2 94664-76-3

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

Molecular Formula: C₆H₇NO

Molecular Weight: 109.127

Accurate Mass: 109.052764

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

Source/Synthesis: Produced by catalytic or iron reduction of 4-Nitrophenol [DTX76-T](#)

Use/Importance: Photographic developer. Used for photometric detn. of IO₃⁽⁻⁾. Intermediate for dyes. Monomer for polyester-amides, phenolic resins, and other polymers

Physical Description: Plates (H₂O)

Melting Point: Mp 186 dec.°

Solubility: Sl. sol. H₂O, EtOH

pKa Value: pK_{a1} 5.29; pK_{a2} 10.46 (25°) pK_{a1} 5.48; pK_{a2} 10.3 (25°, 1% EtOH)

Other Data: Subl. at 110° at reduced pressure with dec.

Hazard & Toxicity: Skin irritant and sensitiser. LD₅₀ (rat, orl) 375 mg/kg. Exp. reprod. and teratogenic effects. Selective nephrotoxic agent. Can cause methaemoglobinaemia

Aldrich: 24599-2

Fluka: 9160

Sigma: A0824

>>Derivative: Hydrochloride

CAS Registry Number: 51-78-5

Physical Description: Prisms

Melting Point: Mp 306 dec.°

Aldrich: 27406-2

Fluka: 9170

Sigma: A2439

>>Derivative: *N*-Formyl

Synonym(s): 4-Hydroxyformanilide. *N*-(4-Hydroxyphenyl)formamide

CAS Registry Number: 1693-39-6

Molecular Formula: C₇H₇NO₂

Molecular Weight: 137.138

Accurate Mass: 137.047679

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

Physical Description: Needles (H₂O)

Melting Point: Mp 139-140°

Rare Chemicals Library: S7696-2

>>Derivative: *N*-Ac

Synonym(s): 4-Hydroxyacetanilide. 4-Acetamidophenol. *N*-(4-Hydroxyphenyl)acetamide. Acetaminophen, USAN. **Paracetamol**, BAN, INN. Hedex. Panadol. Tramil. Tylenol. Many other names