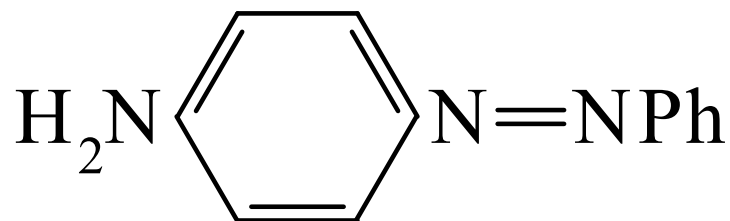




>>Entry Name: 4-Aminoazobenzene

Synonym(s): 4-(Phenylazo)benzenamine, 9Cl. *p*-(Phenylazo)aniline, 8Cl



CAS Registry Number: 60-09-3

Related CAS Registry Numbers(s): 25548-34-9 25548-35-0

Molecular Formula: C₁₂H₁₁N₃

Molecular Weight: 197.239

Accurate Mass: 197.095297

Percentage Composition: C 73.07%; H 5.62%; N 21.30%

Use/Importance: Reagent for characterisation of diacids as *p*-phenylazoanils. Used as 0.02% soln. in EtOH for photometric detn. of SO₂ and S and phenols. Acid-base indicator

Physical Description: Orange needles with blue cast (EtOH)

Melting Point: Mp 126°

Boiling Point: Bp 360°

Solubility: Sol. EtOH, acids, Et₂O; sl. sol. H₂O

pK_a Value: pK_a 11.12

Other Data: Azo nitrogens are more basic than the NH₂ group

Hazard & Toxicity: Possible human carcinogen. Exp. neoplastic agent and teratogen

Aldrich: 18636-8

Sigma: P7144

>>Derivative: Hydrochloride

CAS Registry Number: 3457-98-5

Physical Description: Reddish-blue needles

Melting Point: Mp 360°

Hazard & Toxicity: LD₅₀ (rat, orl) 1250 mg/kg

Aldrich: 15006-1

Sigma: P7269