



>>Entry Name: 4-Hydroxyazobenzene

Synonym(s): 4-(Phenylazo)phenol, 9Cl. *p*-Benzeneazophenol. C.I. Solvent Yellow 7. 1,4-Benzoquinone monophenylhydrazone

CAS Registry Number: 1689-82-3

Molecular Formula: C₁₂H₁₀N₂O

Molecular Weight: 198.224

Accurate Mass: 198.079313

Percentage Composition: C 72.71%; H 5.08%; N 14.13%; O 8.07%

Physical Description: Orange prisms (EtOH)

Melting Point: Mp 155-157°

Boiling Point: Bp₂₀ 220-230°

pKa Value: p*K*_{a1} -0.93; p*K*_{a2} 8.2 (25°, H₂SO₄)

Aldrich: 13108-3

Fluka: 54550

Sigma: S4016

>>Derivative: Hydrochloride

Physical Description: Red needles

Melting Point: Mp 169 dec.°

>>Derivative: Ac

Molecular Formula: C₁₄H₁₂N₂O₂

Molecular Weight: 240.261

Accurate Mass: 240.089878

Percentage Composition: C 69.99%; H 5.03%; N 11.66%; O 13.32%

Physical Description: Yellow leaflets (EtOH)

Melting Point: Mp 89° (84-85°)

>>Derivative: Benzoyl

Molecular Formula: C₁₉H₁₄N₂O₂

Molecular Weight: 302.332

Accurate Mass: 302.105528

Percentage Composition: C 75.48%; H 4.67%; N 9.27%; O 10.58%

Physical Description: Yellow leaflets (EtOH)

Melting Point: Mp 136-138°

>>Derivative: Me ether

Synonym(s): 4-Methoxyazobenzene

CAS Registry Number: 2396-60-3

Molecular Formula: C₁₃H₁₂N₂O

Molecular Weight: 212.251

Accurate Mass: 212.094963

Percentage Composition: C 73.57%; H 5.70%; N 13.20%; O 7.54%

Physical Description: Brownish-yellow cryst. (petrol)

Melting Point: Mp 54-56°

Boiling Point: Bp 340°

Fluka: 64760

References: