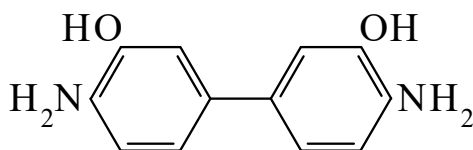




>>Entry Name: 4,4'-Diamino-3,3'-biphenyldiol, 8Cl

Synonym(s): 4,4'-Diamino-3,3'-dihydroxybiphenyl. 3,3'-Dihydroxybenzidine



CAS Registry Number: 2373-98-0

Related CAS Registry Numbers(s): 20282-70-6

Molecular Formula: $C_{12}H_{12}N_2O_2$

Molecular Weight: 216.239

Accurate Mass: 216.089878

Percentage Composition: C 66.65%; H 5.59%; N 12.95%; O 14.80%

Use/Importance: Polycondensation with dicarboxylic acids gives polyesters or polyamides which can cyclise to polybenzoxazoles

Physical Description: Plates (Me_2CO)

Melting Point: Mp 160°

Hazard & Toxicity: Exp. carcinogen and neoplastic agent

>>Derivative: Hydrochloride (1:2)

Physical Description: Plates

Melting Point: Mp 144°

>>Derivative: Tetrabenzoyl

Molecular Formula: $C_{40}H_{28}N_2O_6$

Molecular Weight: 632.671

Accurate Mass: 632.194738

Percentage Composition: C 75.94%; H 4.46%; N 4.43%; O 15.17%

Physical Description: Microcryst. ($CHCl_3$)

Melting Point: Mp 180°

>>Derivative: Di-Me ether

Synonym(s): 4,4'-Diamino-3,3'-dimethoxybiphenyl. 3,3'-Dimethoxybenzidine. *o*-Dianisidine. C.I. Disperse Black 6

CAS Registry Number: 119-90-4

Molecular Formula: $C_{14}H_{16}N_2O_2$

Molecular Weight: 244.293

Accurate Mass: 244.121178

Percentage Composition: C 68.83%; H 6.60%; N 11.47%; O 13.10%

Use/Importance: Used in photometric detn. of $Fe(CN)^{3(-)}$, $Ce(IV)$, $V(V)$, $Cr(VI)$, $IO_4^{(-)}$, H_2O_2 (redox reactions) and as a soln. in glac. AcOH as redox indicator for titrimetric detn. of $Ce(IV)$, $Cr_2O_7^{2(-)}$. Monomer for polyimides

Physical Description: Leaflets

Melting Point: Mp 137-138°

Solubility: Sol. C_6H_6 , AcOH; spar. sol. H_2O

Hazard & Toxicity: Fl. p. 206°. Possible human carcinogen. Severe respiratory tract irritant. Eye irritant. LD₅₀ (rat, orl) 1920 mg/kg

Aldrich: 10259-8

Fluka: 33430

Rare Chemicals Library: S91963-2

Sigma: D3127

>>Derivative: Di-Me ether; hydrochloride

CAS Registry Number: 20325-40-0

Physical Description: Cryst. + H_2O ($Et_2O/EtOH$)

Melting Point: Mp 272 dec.°

Solubility: V. sol. H_2O

Aldrich: 19124-8

Sigma: D9154