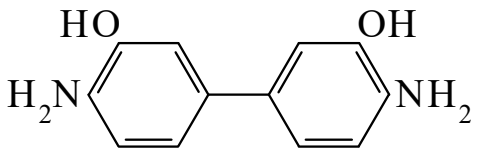
>>**Entry Name: 4,4'-Diamino-3,3'-biphenyldiol,** 8Cl
Synonym(s): 4,4'-Diamino-3,3'-dihydroxybiphenyl. 3,3'-Dihydroxybenzidine



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. LD_{50} (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