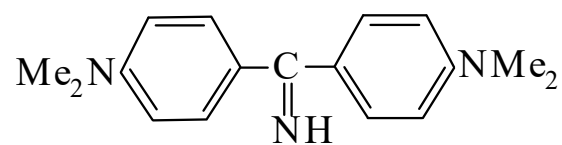




>>Entry Name: Auramine

Synonym(s): 4,4'-Carbonimidoylbis[*N,N*-dimethylbenzenamine], 9Cl. Bis(4-dimethylaminophenyl)methylenimine. 4,4'-Bisdimethylaminobenzophenone imide. Apyonin. Yellow pyoctenin. C.I. Solvent yellow 34



CAS Registry Number: 492-80-8

Molecular Formula: C₁₇H₂₁N₃

Molecular Weight: 267.373

Accurate Mass: 267.173547

Percentage Composition: C 76.37%; H 7.92%; N 15.72%

General Statement: Imide of 4,4'-Bis(dimethylamino)benzophenone [FGZ99-V](#)

Use/Importance: Non light-fast dye for solvents, oils, waxes, lacquers and inks. Used for photometric detn. of PO₄³⁽⁻⁾ (ε 460000)

Physical Description: Yellow plates (EtOH)

Melting Point: Mp 136°

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

Hazard & Toxicity: Possible human carcinogen. LD₅₀ (mus, ipr) 103 mg/kg. Exp. neoplastic agent

>>Derivative: Hydrochloride

Synonym(s): C.I. Basic yellow 2

CAS Registry Number: 2465-27-2

Use/Importance: Dye for silk, cotton, wool, leather, paper. Dye for inks; fluorescence probe; has some bacteriostatic activity

Physical Description: Golden-yellow plates + H₂O (H₂O)

Melting Point: Mp 267°

Solubility: Spar. sol. cold H₂O

Aldrich: 19837-4

Fluka: 11340

Sigma: A1396

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