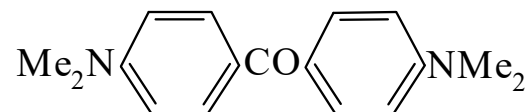




>>Entry Name: 4,4'-Bis(dimethylamino)benzophenone, 8Cl

Synonym(s): Bis[4-(dimethylamino)phenyl]methanone, 9Cl. 4,4'-Tetramethyldiaminobenzophenone. Di-*p*-dimethylaminophenyl ketone. Michler's ketone



CAS Registry Number: 90-94-8

Molecular Formula: C₁₇H₂₀N₂O

Molecular Weight: 268.358

Accurate Mass: 268.157563

Percentage Composition: C 76.09%; H 7.51%; N 10.44%; O 5.96%

Use/Importance: Dye intermed., used in photosensitiser formulations. Universal indicator for determination of acidity, dipolarity and polarisability of reaction media.

Photosensitiser. Photopolym. initiator

Physical Description: Leaflets (EtOH)

Melting Point: Mp 179° (172°)

Boiling Point: Bp 360° dec.

Solubility: Insol. H₂O; sol. arom. solvs.

Hazard & Toxicity: Exp. carcinogen and neoplastic agent

Aldrich: 14783-4

Fluka: 69772

>>Derivative: Oxime

Molecular Formula: C₁₇H₂₁N₃O

Molecular Weight: 283.372

Accurate Mass: 283.168462

Percentage Composition: C 72.06%; H 7.47%; N 14.83%; O 5.65%

Physical Description: Needles

Melting Point: Mp 216-217°

Other Data: Higher-melting compds. formerly thought to be oximes are anilides resulting from rearr.

References:

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Morin, R.D. *et al.*, *J.O.C.*, 1955, **21**, 616, (oxime)

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