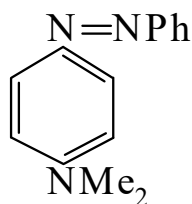




>>Entry Name: 4-Dimethylaminoazobenzene

Synonym(s): *N,N*-Dimethyl-4-(phenylazo)benzenamine, 9Cl. *N,N*-Dimethyl-*p*-(phenylazo)aniline, 8Cl. Butter yellow. Dimethyl yellow. Methyl yellow. C.I. Solvent yellow 2. C.I. 11020. Many other names



CAS Registry Number: 60-11-7

Type of Compound Code(s): PS7850 PM6140

Molecular Formula: C₁₄H₁₅N₃

Molecular Weight: 225.293

Accurate Mass: 225.126597

Percentage Composition: C 74.64%; H 6.71%; N 18.65%

Use/Importance: Used as a 0.04, 0.1 or 0.5% soln. in EtOH as an acid-base indicator (pH range: 2.9-4.0; colour change: red → yellow). Formerly used as a food dye, use discontinued

Physical Description: Yellow leaflets (EtOH)

Melting Point: Mp 115°. Mp 117°

Solubility: Sol. EtOH, Me₂CO, C₆H₆; insol. H₂O

pKa Value: p*K*_{a1} 3.34 (20°) p*K*_{a1} 3.25

Hazard & Toxicity: Possible human carcinogen. Can cause contact dermatitis. LD₅₀ (rat, orl) 200 mg/kg. Exp. carcinogen. Exp. reprod. and teratogenic effects

Aldrich: 11449-9

Fluka: 40300

Rare Chemicals Library: S7784-5

Sigma: D6760

Supelco: 44-2731

References:

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