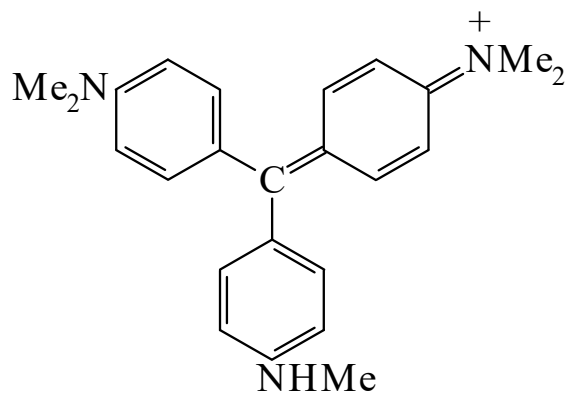




>>Entry Name: Methyl violet

Synonym(s): Basic violet 1, 9CI. C.I. 42535. Paris violet R. Violet powder H 2503



CAS Registry Number: 8004-87-3

Related CAS Registry Numbers(s): 4353-72-4

Molecular Formula: $C_{24}H_{28}N_3^{(+)}$

Molecular Weight: 358.505

Accurate Mass: 358.228322

Percentage Composition: C 80.41%; H 7.87%; N 11.72%

Use/Importance: Used as 0.1% soln. in 0.2M HF for extraction-photometric detn. of As(V), Cr(VI), Au(III) ($\lambda_{\max}$ 600 nm, ϵ 115000, trichloroethylene), $I^{(-)}$, Hg(II), Re(VII), Tl(III), Ta ($\lambda_{\max}$ 605 nm, ϵ 75000, C_6H_6); acid-base indicator (pH range: 0.1-2.0)

Physical Description: Bluish-violet powder

Melting Point: Mp 137 dec.°

Solubility: Sol. H_2O , EtOH

Hazard & Toxicity: Toxic by ingestion. Dec. on heating emitting acrid smoke and irritating fumes

Aldrich: 85840-4

Sigma: M0527

References:

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Fujinaga, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1967, **40**, 817, (detn, Re)

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