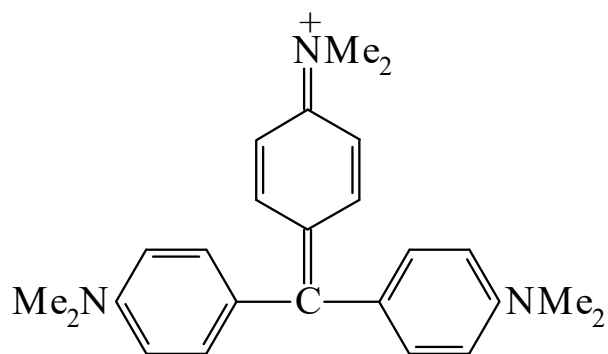




>>Entry Name: Crystal violet

Synonym(s): *N*-[4-[Bis[4-(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-*N*-methylmethanaminium(1+). Tris[(4-dimethylamino)phenyl]methylum. Methylrosaniline. Methyl violet 10B. C.I. Basic violet 3. Aniline violet. C.I. 42555. Gentian violet



CAS Registry Number: 7438-46-2

Related CAS Registry Numbers(s): 603-47-4

Molecular Formula: C₂₅H₃₀N₃⁽⁺⁾

Molecular Weight: 372.532

Accurate Mass: 372.243972

Percentage Composition: C 80.60%; H 8.12%; N 11.28%

>>Derivative: Chloride

Synonym(s): Methylrosanilinium chloride, INN

CAS Registry Number: 548-62-9

Molecular Formula: C₂₅H₃₀ClN₃

Molecular Weight: 407.985

Accurate Mass: 407.212824

Percentage Composition: C 73.60%; H 7.41%; Cl 8.69%; N 10.30%

Use/Importance: Topical antiinfective, anthelmintic, biological stain. Used as 0.02-0.05% soln. in EtOH in photometric detn. of Ag, As, B, Cd, Ga, Hg, I, Mo, P, Pt, Re, Sb, Tl, V (λ_{max} 580 nm, ϵ 130000). Used to kill *Trypanosoma cruzi* (causative agent of Chagas' disease) in blood supplies

Physical Description: Dark green powder or bright blue-violet cryst.

Melting Point: Mp 215 dec.°

Solubility: Sol. H₂O, EtOH, CHCl₃

Hazard & Toxicity: Experimental teratogen. LD₅₀ (mus, orl) 96 mg/kg

Aldrich: 22928-8

Fluka: 48770

Rare Chemicals Library: S57039-7

Sigma: C0775

>>Derivative: Tetraphenylborate

CAS Registry Number: 41687-02-9

Molecular Formula: C₄₉H₅₀BN₃

Molecular Weight: 691.765

Accurate Mass: 691.409777

Percentage Composition: C 85.08%; H 7.28%; B 1.56%; N 6.07%

Use/Importance: Electrolyte

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