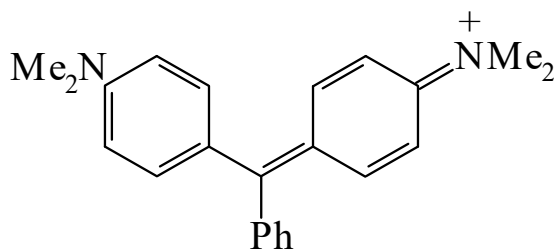




>>Entry Name: Malachite green

Synonym(s): *N*-[4-[[4-(Dimethylamino)phenyl]phenylmethylene]-2,5-cyclohexadien-1-ylidene]-*N*-methylethanaminium(1+). C.I. Basic green 4. Aniline green. China green. Diamond green B. Victoria green B. C.I. 42000



CAS Registry Number: 10309-95-2

Molecular Formula: C₂₃H₂₅N₂⁽⁺⁾

Molecular Weight: 329.464

Accurate Mass: 329.201773

Percentage Composition: C 83.85%; H 7.65%; N 8.50%

>>Derivative: Chloride

CAS Registry Number: 569-64-2

Molecular Formula: C₂₃H₂₅ClN₂

Molecular Weight: 364.917

Accurate Mass: 364.170625

Percentage Composition: C 75.70%; H 6.91%; Cl 9.72%; N 7.68%

Use/Importance: Used for photometric detn. of many elements (e.g. As, Sb, Bi, B, Ga, In, Ge, Si, Re, Ir, Rh, Au(III), Hg, Pd, Ta, U, ClO₄^m); biological stain. Acid-base indicator. Clinical reagent for inorganic phosphate assay

Physical Description: Dark green cryst. powder

Solubility: Sol. H₂O, EtOH

Other Data: Forms colourless leuco-form 4,4'-Bis(dimethylamino)triphenylmethane [BJN98-P](#) on reduction

Hazard & Toxicity: LD₅₀ (rat, orl) 275 mg/kg

>>Derivative: Oxalate

CAS Registry Number: 2437-29-8

Molecular Formula: C₂₅H₂₆N₂O₄

Molecular Weight: 418.491

Accurate Mass: 418.189258

Percentage Composition: C 71.75%; H 6.26%; N 6.69%; O 15.29%

Use/Importance: Biological stain

Aldrich: 86121-9

Sigma: M9015

References:

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