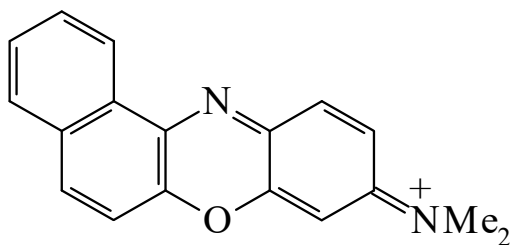




>>Entry Name: Meldola's blue

Synonym(s): 9-(Dimethylamino)benzo[*a*]phenoxazin-7-ium(1+), 9Cl. C.I. Basic blue 6. C.I. 51175



CAS Registry Number: 48188-39-2

Related CAS Registry Numbers(s): 7057-57-0

Molecular Formula: C₁₈H₁₅N₂O⁽⁺⁾

Molecular Weight: 275.329

Accurate Mass: 275.118438

Percentage Composition: C 78.52%; H 5.49%; N 10.17%; O 5.81%

>>Derivative: Chloride

CAS Registry Number: 966-62-1

Molecular Formula: C₁₈H₁₅ClN₂O

Molecular Weight: 310.782

Accurate Mass: 310.08729

Percentage Composition: C 69.57%; H 4.86%; Cl 11.41%; N 9.01%; O 5.15%

Use/Importance: Used as 0.2% soln. in dil. H₂SO₄ for extraction-photometric detn. of B (as BF₄⁽⁻⁾), Ga, Tl(*III*), Ta ($\lambda_{\max}$ 580 nm, ϵ 29000, PhCl)

Physical Description: Black-violet cryst. powder

Solubility: Sol. H₂O, EtOH

References:

Kehrmann, F. *et al.*, *Helv. Chim. Acta*, 1926, **9**, 866, (*synth*)

Skaar, O.B., *Anal. Chim. Acta*, 1965, **32**, 508, (*detn, B*)

Pilipenko, A.T., *Ukr. Khim. Zh. (Russ. edn.)*, 1968, **34**, 703; 1291; 1969, **35**, 303, (*detn, Ta, Tl*)

Burd, J. *et al.*, *Anal. Chim. Acta*, 1973, **46**, 223, (*detn, Ta*)