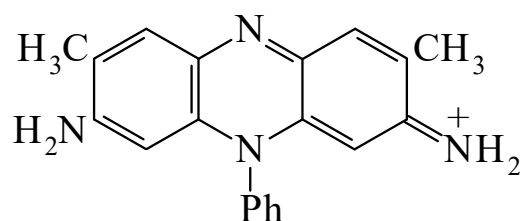




>>Entry Name: 3,7-Diamino-2,8-dimethyl-5-phenylphenazinium(1+), 9Cl

Synonym(s): Safranine T. Safranine O. C.I. Basic red 2. C.I. 50240. Gossypimine. Cotton red



Related CAS Registry Numbers(s): 163231-18-3

Molecular Formula: $C_{20}H_{19}N_4^{(+)}$

Molecular Weight: 315.397

Accurate Mass: 315.160971

Percentage Composition: C 76.16%; H 6.07%; N 17.76%

Other Data: The reagent is reduced to colourless leuco-safranine

>>Derivative: Chloride

CAS Registry Number: 477-73-6

Molecular Formula: $C_{20}H_{19}ClN_4$

Molecular Weight: 350.85

Accurate Mass: 350.129823

Percentage Composition: C 68.47%; H 5.46%; Cl 10.10%; N 15.97%

Use/Importance: Used as 0.2% aq. soln. for extraction-photometric detn. of Sb ($\lambda_{\max}$ 530 nm, ϵ 40000), Bi, P(V), Re(VII), Au(III), Tl(III), Si(IV). Biological stain

Physical Description: Blue-violet powder

Solubility: Sol. H_2O , EtOH

Aldrich: 19864-1

Fluka: 84120

Rare Chemicals Library: S26593-4

Sigma: S2255

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 887B, (ir)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 645

Ducret, L. *et al.*, *Anal. Chim. Acta*, 1959, **21**, 86, (detn, P)

Pilipenko, A.T. *et al.*, *Ukr. Khim. Zh. (Russ. edn.)*, 1968, **34**, 1286; 1976, **42**, 1183, (detn, Sb, Si)

Burgess, C. *et al.*, *Analyst (London)*, 1973, **98**, 605, (detn, Sb)

Flyantikova, C.V. *et al.*, *Zh. Anal. Khim.*, 1982, **37**, 1452, (detn, Bi)