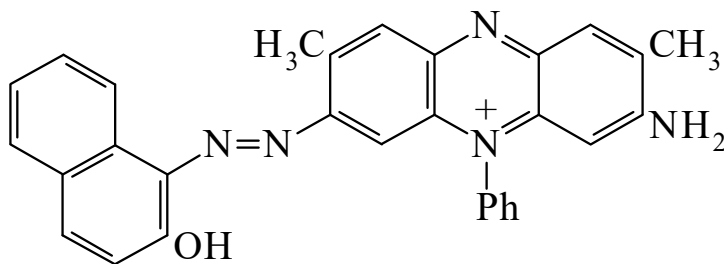




>>Entry Name: Janus blue

Synonym(s): 3-Amino-7-[(2-hydroxy-1-naphthalenyl)azo]-2,8-dimethyl-5-phenylphenazinium(1+). C.I. Basic blue 16. Indoin blue. C.I. 12210



Molecular Formula: C₃₀H₂₄N₅O⁽⁺⁾

Molecular Weight: 470.552

Accurate Mass: 470.198085

Percentage Composition: C 76.58%; H 5.14%; N 14.88%; O 3.40%

>>Derivative: Chloride

CAS Registry Number: 4569-88-4

Molecular Formula: C₃₀H₂₄ClN₅O

Molecular Weight: 506.005

Accurate Mass: 505.166937

Percentage Composition: C 71.21%; H 4.78%; Cl 7.01%; N 13.84%; O 3.16%

Use/Importance: Used for extraction-photometric detn. of Au, Fe, Sb, Ta

Physical Description: Dark blue cryst. powder

Other Data: λ_{max} 589 nm (H₂O)

Aldrich: 20081-6

Sigma: I1756

References:

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 1471A, (ir)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 409

Guseinov, I.K. *et al.*, *CA*, 1977, **86**, 114777q, (detn, Au)

Guseinov, I.K. *et al.*, *Azerb. Khim. Zh.*, 1982, **6**, 83; 1984, **4**, 92; 1985, **6**, 105, (detn, Sb, Fe, Ta)