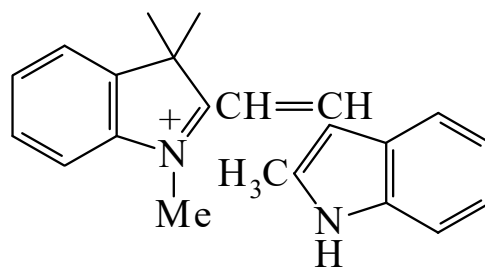




>>Entry Name: 1,3,3-Trimethyl-2-[2-(2-methyl-1*H*-indol-3-yl)ethylene]-3*H*-indolium(1+), 9Cl

Synonym(s): Astrazon orange G. C.I. Basic orange 21. C.I 48035



Molecular Formula: C₂₂H₂₃N₂⁽⁺⁾

Molecular Weight: 315.437

Accurate Mass: 315.186123

Percentage Composition: C 83.77%; H 7.35%; N 8.88%

>>Derivative: Chloride

CAS Registry Number: 3056-93-7

Molecular Formula: C₂₂H₂₃ClN₂

Molecular Weight: 350.89

Accurate Mass: 350.154975

Percentage Composition: C 75.31%; H 6.61%; Cl 10.10%; N 7.98%

Use/Importance: Used as a 8.5mM aq. soln. for extraction-photometric detn. of Sn(IV) ($\lambda_{\max}$ 505 nm, C₆H₆/Me₂CO); photometric detn. of Pb; acid-base indicator

Physical Description: Orange cryst. (HCl aq.)

Solubility: Sol. H₂O, EtOH; insol. C₆H₆, CCl₄

pKa Value: pK_a 9.71

Aldrich: 27421-6

References:

Sigma-Aldrich Library of Stains, Dyes and Indicators, 102

Colour Index, 3rd Ed., 1971, **4**, 4438, (*synth*)

Abbadi, M.A. *et al.*, *Zh. Org. Khim.*, 1972, **18**, 2409, (*use*)

Popa, G. *et al.*, *Rev. Chim. (Bucharest)*, 1979, **30**, 686, (*detn, Sn*)

Kish, P.P. *et al.*, *Zh. Anal. Khim.*, 1989, **44**, 313, (*detn, Pb*)