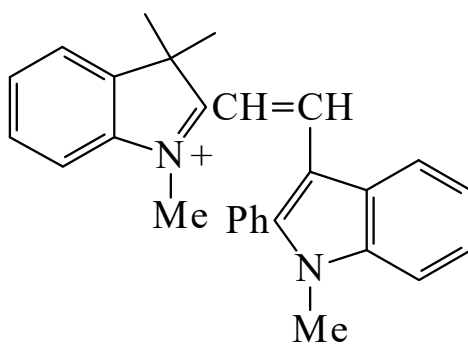




>>Entry Name: Astrazon orange R

Synonym(s): 1,3,3-Trimethyl-2-[2-(1-methyl-2-phenyl-1H-indol-3-yl)ethenyl]-3H-indolium(1+), 9Cl. C.I. Basic orange 22. C.I. 48040. Aizen cathilon orange RH. Atacryl orange LR. Catacryl orange R. Sumiacryl orange R



Molecular Formula: $C_{28}H_{27}N_2^{(+)}$

Molecular Weight: 391.535

Accurate Mass: 391.217423

Percentage Composition: C 85.89%; H 6.95%; N 7.15%

General Statement: Strictly, the name Astrazon orange R applies to the chloride

>>Derivative: Chloride

CAS Registry Number: 4657-00-5

Molecular Formula: $C_{28}H_{27}ClN_2$

Molecular Weight: 426.987

Accurate Mass: 426.186275

Percentage Composition: C 78.76%; H 6.37%; Cl 8.30%; N 6.56%

Use/Importance: Used as a 7.5mM aq. soln. for extraction photometric detn. of Sn(IV) ($\lambda_{\max}$ 500 nm, C_6H_6/Me_2CO); acid base indicator

Physical Description: Orange cryst. (HCl aq.)

Solubility: Sol. H_2O , EtOH; insol. C_6H_6 , CCl_4

References:

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

Abbadi, M.A. *et al.*, *Zh. Org. Khim.*, 1972, **8**, 240g, (use)

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