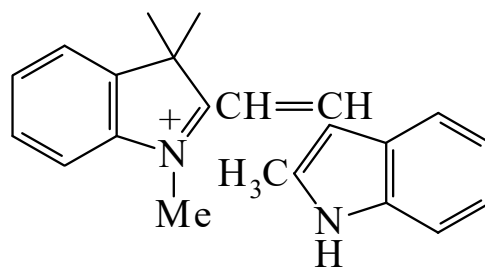




>>Entry Name: 1,3,3-Trimethyl-2-[2-(2-methyl-1*H*-indol-3-yl)ethylene]-3*H*-indolium(1+), 9Cl

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



**Molecular Formula:** C<sub>22</sub>H<sub>23</sub>N<sub>2</sub><sup>(+)</sup>

**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:** C<sub>22</sub>H<sub>23</sub>ClN<sub>2</sub>

**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) ( $\lambda_{\text{max}}$  505 nm, C<sub>6</sub>H<sub>6</sub>/Me<sub>2</sub>CO); photometric detn. of Pb; acid-base indicator

**Physical Description:** Orange cryst. (HCl aq.)

**Solubility:** Sol. H<sub>2</sub>O, EtOH; insol. C<sub>6</sub>H<sub>6</sub>, CCl<sub>4</sub>

**pKa Value:** pK<sub>a</sub> 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*)