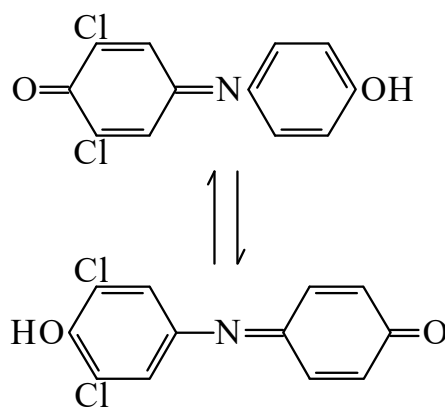




>>Entry Name: 2,6-Dichloro-4-[(4-hydroxyphenyl)imino]-2,5-cyclohexadien-1-one, 9Cl

Synonym(s): 2,6-Dichloroindophenol, 8Cl. Tillman's reagent



CAS Registry Number: 956-48-9

Related CAS Registry Numbers(s): 620-45-1

Molecular Formula: $C_{12}H_7Cl_2NO_2$

Molecular Weight: 268.098

Accurate Mass: 266.985383

Percentage Composition: C 53.76%; H 2.63%; Cl 26.45%; N 5.22%; O 11.94%

Use/Importance: Redox indicator. Used in detn. of $[Fe(CN)_6]^{3(-)}$ (III) (with ascorbic acid) and many other anions. Also used for assay of ascorbic acid

Physical Description: Dark green cryst. powder. Fairly unstable in aq. soln.

Solubility: Sol. H_2O , EtOH, Me_2CO

pKa Value: pK_a 5.7

Other Data: E° +0.668 V (30°)

References:

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Kramer, D.N. *et al.*, *J.O.C.*, 1959, **24**, 1742, (synth, esters)

Erdey, L. *et al.*, *Anal. Chim. Acta*, 1962, **27**, 164; 363; 498; 1963, **28**, 398, (detn, $Fe(CN)_6^{3(-)}$)

Bishop, E., *Indicators*, Pergamon, Oxford, 1972, 133

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