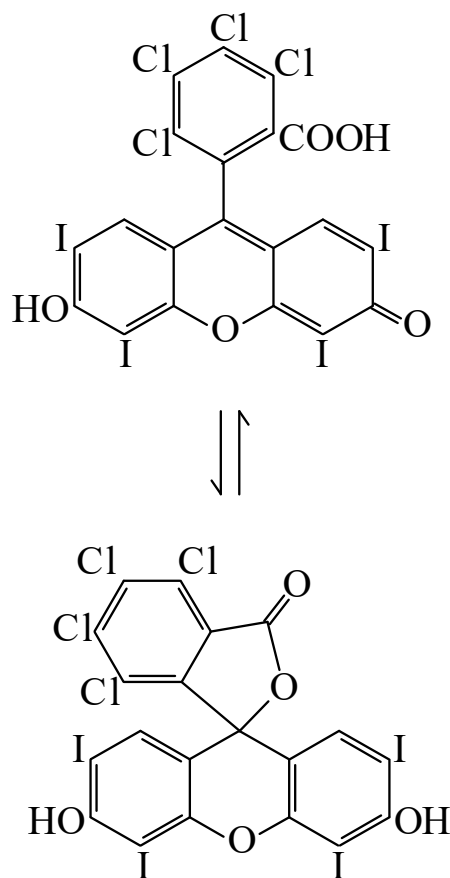




>>Entry Name: Rose bengal, 8Cl

Synonym(s): 4,5,6,7-Tetrachloro-3',6'-dihydroxy-2',4',5',7'-tetraiodospiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-3-one, 9Cl. 3,4,5,6-Tetrachloro-2',4',5',7'-tetraiodofluorescein, 8Cl. C.I. Solvent red 141. C.I. 45440



CAS Registry Number: 4159-77-7

Related CAS Registry Numbers(s): 152-74-9 632-69-9 11121-48-5 15251-14-6 24916-55-0 42352-89-6 50291-21-9

Molecular Formula: C₂₀H₄Cl₄I₄O₅

Molecular Weight: 973.677

Accurate Mass: 971.499175

Percentage Composition: C 24.67%; H 0.41%; Cl 14.56%; I 52.13%; O 8.22%

Use/Importance: Singlet-O₂ sensitiser for photooxidations. Dyestuff for cosmetics; food additive. Acid-base indicator

Solubility: Insol. H₂O

Other Data: Normally used as di-Na salt

Aldrich: 32896-0

Rare Chemicals Library: S45294-7

>>Derivative: Di-K salt

Synonym(s): Rose Bengal B. C.I. Acid red 94

CAS Registry Number: 632-68-8

Use/Importance: Dyestuff for nylon, silk, cellulose materials, inks, cosmetics. Used for extraction-photometric detn. of Cu, Pb, Hg, Ni, Cd, Ag, Pd

Physical Description: Bright bluish pink solid

Solubility: Sol. H₂O (blue-red soln., no fluor.)

Hazard & Toxicity: Binds to and inhibits RNA polymerase

>>Derivative: Di-Na salt

Synonym(s): Rose bengal sodium, INN. Food red colour 105

CAS Registry Number: 42352-53-4

Use/Importance: Biological stain. Used for diagnosing corneal trauma. ¹²⁵I and ¹³¹I labelled versions are used as diagnostic aids in hepato-biliary function detn. (*Robengatrope*)

Physical Description: Red powder

Hazard & Toxicity: Stains clothing, skin, soft contact lenses. Exp. reprod. and teratogenic effects. Exp. goitrogen

>>Derivative: Bis Et₃NH salt

CAS Registry Number: 91491-51-9

Use/Importance: Singlet oxygen sensitiser

Physical Description: Purple red powder

Aldrich: 30527-8

Sigma: R6631