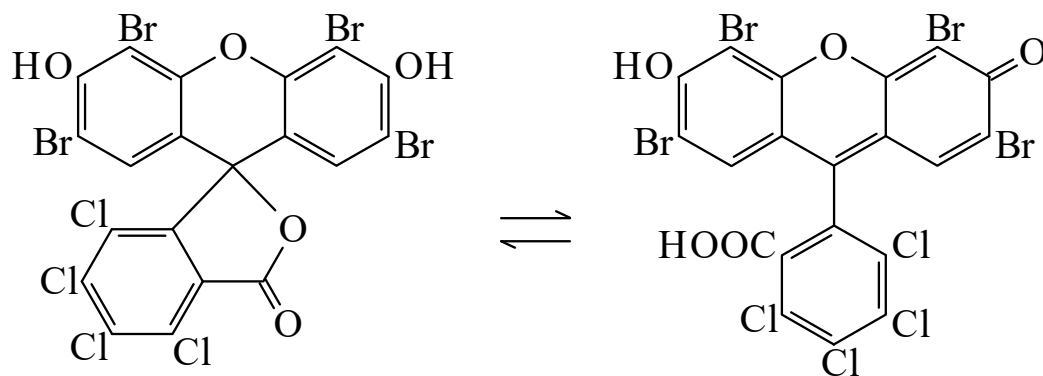




>>Entry Name: Phloxine B

Synonym(s): 2',4',5',7'-Tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxyspiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-3-one, 9Cl. Phloxine BA. Tetrabromo(R)tetrachloro(P) fluorescein. C.I. Acid Red 92. Cyanosine. C.I. 45410. Eosin 10B. Food Red No. 104. R104



CAS Registry Number: 13473-26-2

Related CAS Registry Numbers(s): 20266-44-8 75888-73-2

Molecular Formula: C₂₀H₄Br₄Cl₄O₅

Molecular Weight: 785.675

Accurate Mass: 779.634627

Percentage Composition: C 30.57%; H 0.51%; Br 40.68%; Cl 18.05%; O 10.18%

Use/Importance: Red dye

Physical Description: Cryst. (AcOH)

Solubility: Sol. alkalis, EtOH, Me₂CO, Et₂O, EtOAc, CHCl₃, C₆H₆; spar. sol. AcOH

>>Derivative: Di-Na salt

CAS Registry Number: 18472-87-2

Use/Importance: Printing ink and cosmetic dye. Used as a 0.2% aq. soln. as acid-base fluorescent indicator (pH range: 2.5 - 4.0). Biological stain

Physical Description: Orange-red cryst. powder

Solubility: Sol. H₂O, EtOH

Other Data: A soln. shows dark green (H₂O) or brick red (EtOH) fluorescence

Aldrich: 19827-7

Fluka: 28550

Rare Chemicals Library: S44048-5

Sigma: P2759

References:

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Sigma-Aldrich Library of Stains, Dyes and Indicators, 577

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Wales, H., *J.A.C.S.*, 1923, **45**, 2421, (*Na salt, uv*)

Holmes, W.C., *J.A.C.S.*, 1924, **46**, 2770, (*K salt, uv*)

Adelman, A.H. *et al.*, *J.A.C.S.*, 1956, **78**, 3977, (*fluor*)

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