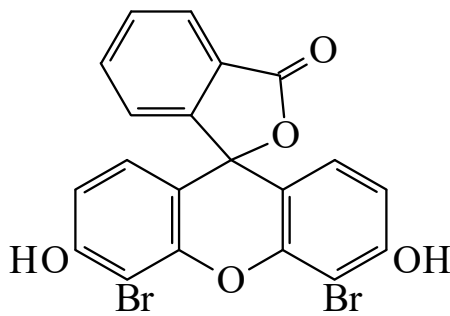




>>Entry Name: 4',5'-Dibromofluorescein

Synonym(s): 4',5'-Dibromo-3',6'-dihydroxyspiro[isobenzofuran-1(13*H*),9'-[9*H*]xanthen]-3-one, 9Cl. C.I. Acid orange 11. C.I. 45370. D & C Orange No. 6. C.I. Solvent red 72



CAS Registry Number: 596-03-2

Molecular Formula: C₂₀H₁₀Br₂O₅

Molecular Weight: 490.104

Accurate Mass: 487.929497

Percentage Composition: C 49.01%; H 2.06%; Br 32.61%; O 16.32%

Aldrich: 21672-0

Fluka: 34175

Sigma: D3017

>>Derivative: Di-Na salt

CAS Registry Number: 56136-34-6

Extra CAS Registry Numbers(s): 4372-02-5

Use/Importance: Used as a 1mM soln. in EtOH as adsorption indicator for titrimetric detn. of Br⁽⁻⁾, I⁽⁻⁾

Physical Description: Red cryst. (EtOH)

Melting Point: Mp 285°

Solubility: Sol. EtOH, Me₂CO, alkalis

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, 2, 1011A, (ir)

Sigma-Aldrich Library of Stains, Dyes and Indicators, 249

Bishop, E., *Indicators*, Pergamon, Oxford, 1972, 440

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold, 1992, DDO200*