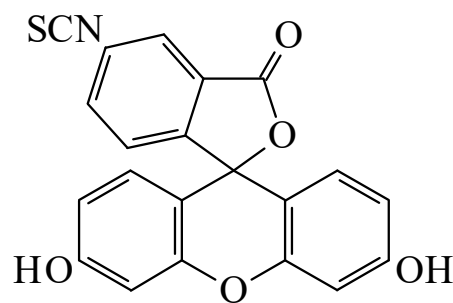




>>Entry Name: 3',6'-Dihydroxy-5-isothiocyanatospiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-3-one, 9Cl

Synonym(s): Fluorescein-5-isothiocyanate



CAS Registry Number: 3326-32-7

Related CAS Registry Numbers(s): 118378-76-0

Extra CAS Registry Numbers(s): 27072-45-3

Molecular Formula: C₂₁H₁₁NO₅S

Molecular Weight: 389.388

Accurate Mass: 389.035794

Percentage Composition: C 64.78%; H 2.85%; N 3.60%; O 20.54%; S 8.23%

Use/Importance: Fluorescent label for proteins and amino acids

Physical Description: Orange-yellow cryst.

Other Data: M.p. >360° dec. Freq. supplied as a mixt. with the 6-isothiocyanato isomer in which the 5-isomer predominates.

Aldrich: F250-2

Fluka: 46952

Sigma: F7250

References:

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Riggs, J.L. *et al.*, *Am. J. Pathol.*, 1958, **34**, 1081-1093, (*synth, use*)
Maeda, H. *et al.*, *J. Biochem. (Tokyo)*, 1969, **65**, 777; **66**, 783, (*use*)
Steinbach, G., *Acta Histochem.*, 1974, **50**, 19; **57**, 227-231, (*synth, tlc*)
Sinsheimer, J.E. *et al.*, *Anal. Biochem.*, 1974, **57**, 227, (*synth, ir, nmr*)
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