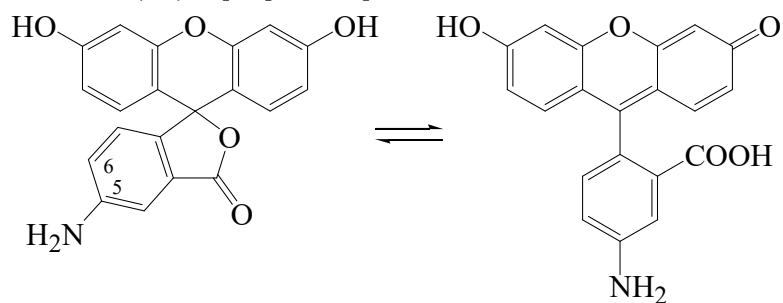




>>Entry Name: 5-Aminofluorescein

Synonym(s): 5-Amino-3',6'-dihydroxyspiro[isobenzofuran-1(3*H*),9'-[9*H*]xanthen]-3-one, 9Cl. Fluoresceinamine I



CAS Registry Number: 3326-34-9

Extra CAS Registry Numbers(s): 27599-63-9

Molecular Formula: C₂₀H₁₃NO₅

Molecular Weight: 347.326

Accurate Mass: 347.079374

Percentage Composition: C 69.16%; H 3.77%; N 4.03%; O 23.03%

Use/Importance: Fluorescent labelling reagent for glycosamino-glycuronans

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 223° (dec.)

Other Data: Turns red in air. Shows weak fluorescence (<1% that of fluorescein)

>>Derivative: *N*-Ac

Molecular Formula: C₂₂H₁₅NO₆

Molecular Weight: 389.364

Accurate Mass: 389.089939

Percentage Composition: C 67.87%; H 3.88%; N 3.60%; O 24.65%

Physical Description: Orange-yellow cryst. (Me₂CO aq.)

Melting Point: Mp 237-240° (dec.)

Other Data: Strongly fluorescent

>>Derivative: *N,O,O*-Tri-Ac

Molecular Formula: C₂₆H₁₉NO₈

Molecular Weight: 473.438

Accurate Mass: 473.111069

Percentage Composition: C 65.96%; H 4.04%; N 2.96%; O 27.04%

Physical Description: Sl. brown cryst.

Other Data: Mp >300°

References:

Coons, A.H. *et al.*, *J. Exp. Med.*, 1950, **91**, 1-13, (*synth*)

De Repentigny, J. *et al.*, *Nature (London)*, 1954, **174**, 927-928, (*chromatog*)

McKinney, R.M. *et al.*, *J.C.S.(C)*, 1970, 654-656, (*synth*)

Steinbach, G. *et al.*, *Acta Histochem.*, 1974, **50**, 19-34, (*synth*)

Ogamo, A. *et al.*, *Carbohydr. Res.*, 1982, **105**, 69, (*use, derivs*)