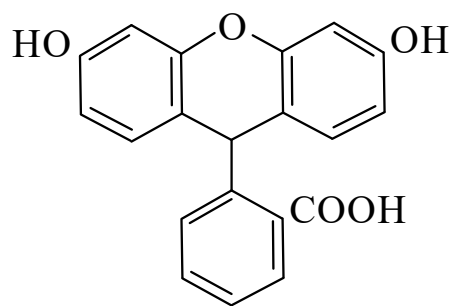




>>Entry Name: **Fluorescein**

Synonym(s): 2-(3,6-Dihydroxy-9*H*-xanthen-9-yl)benzoic acid, 9Cl, 8Cl



CAS Registry Number: 518-44-5

Molecular Formula: C₂₀H₁₄O₅

Molecular Weight: 334.328

Accurate Mass: 334.084125

Percentage Composition: C 71.85%; H 4.22%; O 23.93%

Physical Description: Needles (AcOH)

Melting Point: Mp 125-127°

Solubility: Sol. Et₂O, alkalis

Other Data: Turns yellow in air. Oxidn. → Fluorescein. Derivs. of this compd. are often wrongly described as derivs. of Fluorescein [GCJ36-H](#). The literature of Fluorescein and Fluorescein is somewhat confused.

>>Derivative: Di-Ac

CAS Registry Number: 35340-49-9

Molecular Formula: C₂₄H₁₈O₇

Molecular Weight: 418.402

Accurate Mass: 418.105255

Percentage Composition: C 68.90%; H 4.34%; O 26.77%

Use/Importance: Reagent for the detn. of alcohols and amines

Melting Point: Mp 213° (200-202°)

Aldrich: 29264-8

Fluka: 37288

Sigma: D7158

>>Derivative: Et ester

Molecular Formula: C₂₂H₁₈O₅

Molecular Weight: 362.381

Accurate Mass: 362.115425

Percentage Composition: C 72.92%; H 5.01%; O 22.08%

Physical Description: Needles (AcOH)

Melting Point: Mp 195-196°

Other Data: Turns yellow in air

>>Derivative: Di-Me ether

CAS Registry Number: 110943-55-0

Molecular Formula: C₂₂H₁₈O₅

Molecular Weight: 362.381

Accurate Mass: 362.115425

Percentage Composition: C 72.92%; H 5.01%; O 22.08%

Physical Description: Needles (EtOH)

Melting Point: Mp 204-205°

>>Derivative: Di-Me ether, Me ester

Molecular Formula: C₂₃H₂₀O₅

Molecular Weight: 376.408

Accurate Mass: 376.131075

Percentage Composition: C 73.39%; H 5.36%; O 21.25%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 136°

References: