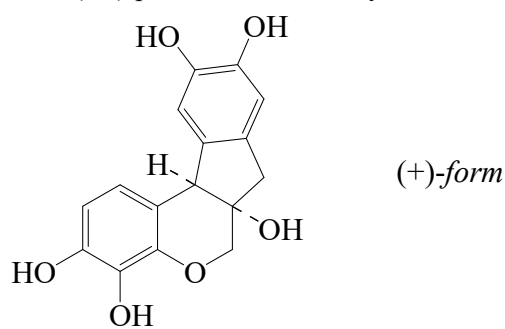




>>Entry Name: Haematoxylin

Synonym(s): 7,11*b*-Dihydrobenz[*b*]indeno[1,2-*d*]pyran-3,4,6*a*,9,10(6*H*)-pentol, 9*cl*. Hematoxylin. C.I. Natural black 1. C.I. 75290



Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

>>Variant: (+)-form

CAS Registry Number: 517-28-2

Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

Biological Source: Constit. of *Haematoxylon campechianum* (Logwood). First isol. in 1810

Use/Importance: Histological stain. Used as 0.1% soln. in 95% EtOH for photometric detn. of B, Ti, Sn ($\lambda_{\max}$ 590 nm, ϵ 23000), F⁽⁻⁾ (indirectly)

Physical Description: Prisms + 3H₂O (EtOH)

Melting Point: Mp 100-120°

Optical Rotation: $[\alpha]_{\text{D}}^{18} +102.4$ (H₂O). $[\alpha]_{\text{D}}^{18} +90.3$ (c, 1.04 in MeOH)

Solubility: Sol. hot H₂O

Other Data: Reddens on exp. to light. Sweet taste

Aldrich: 86118-9

Fluka: 51260

Sigma: H3136

>>Derivative: Penta-Ac

Molecular Formula: C₂₆H₂₄O₁₁

Molecular Weight: 512.469

Accurate Mass: 512.131865

Percentage Composition: C 60.94%; H 4.72%; O 34.34%

Melting Point: Mp 165-166°

>>Variant: (±)-form

CAS Registry Number: 1621-46-1

Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

Melting Point: Mp 210-212°

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Masuda, H. *et al.*, *Chem. Pharm. Bull.*, 1991, **39**, 1382-1384, (*isol*)

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