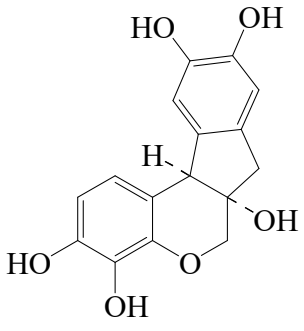
>>**Entry Name: Haematoxylin**

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



(+)-*form*

Molecular Formula: $C_{16}H_{14}O_6$
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: $C_{16}H_{14}O_6$
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 (λ_{max} 590 nm, ε 23000), $F^{(-)}$ (indirectly)
Physical Description: Prisms + $3H_2O$ (EtOH)
Melting Point: Mp 100-120°
Optical Rotation: $[\alpha]_D^{18}$+102.4 (H_2O). $[\alpha]_D^{18}$+90.3 (c, 1.04 in MeOH)
Solubility: Sol. hot H_2O
Other Data: Reddens on exp. to light. Sweet taste

Aldrich: 86118-9
Fluka: 51260
Sigma: H3136

>>**Derivative:** Penta-Ac

Molecular Formula: $C_{26}H_{24}O_{11}$
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: $C_{16}H_{14}O_6$
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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