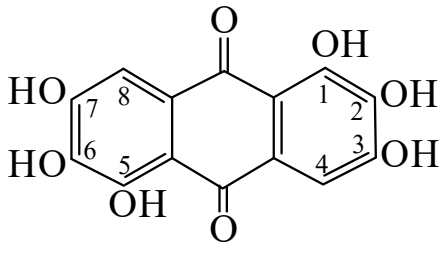
>>**Entry Name: 1,2,3,5,6,7-Hexahydroxyanthraquinone,** 8CI
Synonym(s): 1,2,3,5,6,7-Hexahydroxy-9,10-anthracenedione, 9CI. Rufigallol. Rufigallic acid



CAS Registry Number: 82-12-2

Molecular Formula: $C_{14}H_8O_8$
Molecular Weight: 304.212
Accurate Mass: 304.02192
Percentage Composition: C 55.28%; H 2.65%; O 42.07%
Use/Importance: Used as 0.07% soln. in DMSO for photometric detn. of Be (λ_{max} 530 nm)
Physical Description: Red needles
Melting Point: Mp 365°

>>**Derivative:** Hexa-Ac
Molecular Formula: $C_{26}H_{20}O_{14}$
Molecular Weight: 556.436
Accurate Mass: 556.08531
Percentage Composition: C 56.12%; H 3.62%; O 40.25%
Physical Description: Yellow plates (Ac_2O)
Melting Point: Mp 268-270 dec.°

>>**Derivative:** Hexa-Me ether
Synonym(s): 1,2,3,5,6,7-Hexamethoxyanthraquinone

Molecular Formula: $C_{20}H_{20}O_8$
Molecular Weight: 388.373
Accurate Mass: 388.11582
Percentage Composition: C 61.85%; H 5.19%; O 32.96%
Physical Description: Yellow needles
Melting Point: Mp 240°

References:

Birkenshaw, J.H. *et al.*, *Biochem. J.*, 1955, **59**, 475, *(uv)*
Grimshaw, J. *et al.*, *J.C.S.*, 1956, 4225, *(synth)*
Bloom, H. *et al.*, *J.C.S.*, 1959, 178, *(ir)*
Chan, A.W.K. *et al.*, *Aust. J. Chem.*, 1966, **19**, 1701, *(pmr)*
Azim, M.A. *et al.*, *Mikrochim. Acta*, 1969, 153, *(synth, detn, Be)*