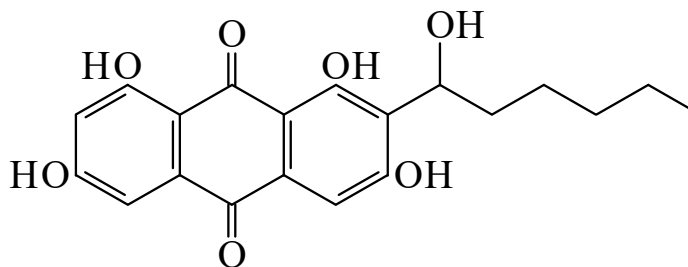




>>Entry Name: Averantin

Synonym(s): 1,3,6,8-Tetrahydroxy-2-(1-hydroxyhexyl)-9,10-anthracenedione, 9Cl. 1,3,6,8-Tetrahydroxy-2-(1-hydroxyhexyl)anthraquinone



CAS Registry Number: 5803-62-3

Molecular Formula: C₂₀H₂₀O₇

Molecular Weight: 372.374

Accurate Mass: 372.120905

Percentage Composition: C 64.51%; H 5.41%; O 30.08%

General Statement: Anthraquinone antibiotic

Biological Source: Metab. of *Aspergillus versicolor*, *Aspergillus parasiticus* and *Cercospora arachidicola*

Physical Description: Orange needles (CHCl₃)

Melting Point: Mp 233-234°

Optical Rotation: $[\alpha]_D^{22} -178$ (c, 0.37 in EtOH)

UV: [neutral] $\lambda_{\max}$ 223 (ϵ 33900); 266 (ϵ 17500); 294 (ϵ 33900); 325 (ϵ 10250); 454 (ϵ 10650) (EtOH) (Berdy)

Hazard & Toxicity: Shows mutagenic activity

>>Derivative: 6-Me ether

Synonym(s): 1,3,8-Trihydroxy-2-(1-hydroxyhexyl)-6-methoxyanthraquinone

Molecular Formula: C₂₁H₂₂O₇

Molecular Weight: 386.401

Accurate Mass: 386.136555

Percentage Composition: C 65.28%; H 5.74%; O 28.98%

Biological Source: Isol. from the lichen *Solorina crocea*

Melting Point: Mp 213°

Optical Rotation: $[\alpha]_D^{23} -176.5$ (EtOH)

>>Derivative: 1'-Me ether

Synonym(s): 1,3,6,8-Tetrahydroxy-2-(1-methoxyhexyl)anthraquinone

CAS Registry Number: 28254-23-1

Molecular Formula: C₂₁H₂₂O₇

Molecular Weight: 386.401

Accurate Mass: 386.136555

Percentage Composition: C 65.28%; H 5.74%; O 28.98%

Biological Source: Isol. from *Aspergillus versicolor*

Melting Point: Mp 215°. Mp 275° (double Mp)

References:

- Birkinshaw, J.H. *et al.*, *J.C.S.(C)*, 1966, 855, (*isol, struct*)
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Steglich, W. *et al.*, *Z. Naturforsch., C*, 1976, **31**, 197, (*isol, pmr, ms, synth, deriv*)
Gorst-Allman, C.P. *et al.*, *J.C.S. Perkin I*, 1977, 2181, (*cmr, biosynth*)
Dunn, J.J. *et al.*, *Biotechnol. Lett.*, 1980, **2**, 17, (*isol*)
Stoessl, A. *et al.*, *Can. J. Chem.*, 1985, **63**, 1258, (*isol, cmr*)