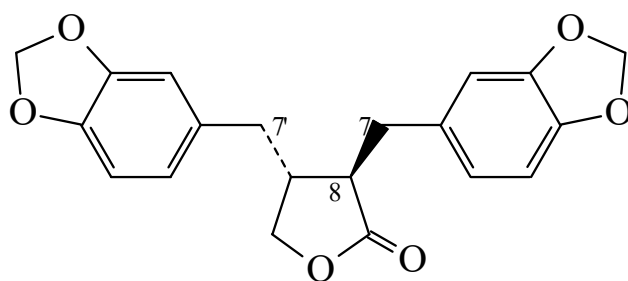




>>Entry Name: 3,4:3',4'-Bis(methylenedioxy)lignan-9,9'-olide

Synonym(s): 3,4-Bis(1,3-benzodioxol-5-ylmethyl)dihydro-2(3*H*)-furanone, 9Cl



(8*R*,8'*R*)-form

Molecular Formula: C₂₀H₁₈O₆

Molecular Weight: 354.359

Accurate Mass: 354.11034

Percentage Composition: C 67.79%; H 5.12%; O 27.09%

>>Variant: (8*R*,8'*R*)-form

Synonym(s): **Hinokinin**. Cubebinolide. Heliobuphthalmin lactone

CAS Registry Number: 26543-89-5

Molecular Formula: C₂₀H₁₈O₆

Molecular Weight: 354.359

Accurate Mass: 354.11034

Percentage Composition: C 67.79%; H 5.12%; O 27.09%

Biological Source: Lignan from the wood of *Chamaecyparis obtusa*, from *Virola sebifera* and many other plants

Physical Description: Plates (EtOH or C₆H₆)

Melting Point: Mp 64-65°

Optical Rotation: [α]_D¹⁶ -33.7 (CHCl₃)

UV: [neutral] $\lambda_{\max}$ 235 (ϵ 6760); 287 (ϵ 6760) (MeOH) (Berdy)

>>Derivative: 7*S*-Hydroxy

Synonym(s): **Sventenin**. 7-Hydroxyhinokinin

CAS Registry Number: 28168-95-8

Molecular Formula: C₂₀H₁₈O₇

Molecular Weight: 370.358

Accurate Mass: 370.105255

Percentage Composition: C 64.86%; H 4.90%; O 30.24%

Biological Source: Isol. from heartwood of *Taiwania cryptomeroides*. Also from *Juniperus chinensis*

Melting Point: Mp 129.5-130.5°

Optical Rotation: [α]_D -63 (c, 3.46 in CHCl₃)

>>Derivative: 7'-Oxo

Synonym(s): **7'-Oxohinokinin**

CAS Registry Number: 130837-92-2

Molecular Formula: C₂₀H₁₆O₇

Molecular Weight: 368.342

Accurate Mass: 368.089605

Percentage Composition: C 65.22%; H 4.38%; O 30.41%

Biological Source: Isol. from wood of *Calocedrus formosana*

Physical Description: Needles (CHCl₃/MeOH)

Melting Point: Mp 109.5-111°

Optical Rotation: [α]_D²⁵ +10 (c, 0.82 in CHCl₃)