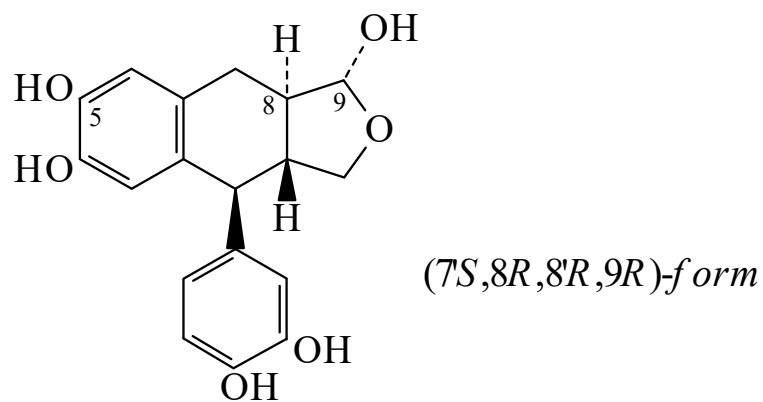




>>Entry Name: 3',4',5,9-Pentahydroxy-9,9'-epoxy-2,7'-cyclolignan
ENTRY UNDER REVIEW



Related CAS Registry Number(s): 101312-79-2

Molecular Formula: C₁₈H₁₈O₆

Molecular Weight: 330.337

Accurate Mass: 330.11034

Percentage Composition: C 65.45%; H 5.49%; O 29.06%

>>Variant: (7*S*,8*R*,8*R*,9*R*)-form

Molecular Formula: C₁₈H₁₈O₆

Molecular Weight: 330.337

Accurate Mass: 330.11034

Percentage Composition: C 65.45%; H 5.49%; O 29.06%

>>Derivative: 3',5-Di-Me ether

Synonym(s): 4,4',9-Trihydroxy-3',5-dimethoxy-9,9'-epoxy-2,7'-cyclolignan. **Todolactol B**

CAS Registry Number: 111956-89-9

Molecular Formula: C₂₀H₂₂O₆

Molecular Weight: 358.39

Accurate Mass: 358.14164

Percentage Composition: C 67.03%; H 6.19%; O 26.79%

Biological Source: Isol. from heartwood of *Pinus armandii* and *Abies sachalinensis*, prod. of hydrol. of lignin

Melting Point: Mp 181-182°

Optical Rotation: $[\alpha]_D^{23} +38.8$ (c, 0.33 in Me₂CO)

Other Data: 9-Config. appears uncertain

>>Derivative: 3',5,9-Tri-Me ether

Synonym(s): Methyl α -conidendral. **Todolactol C**. α -Conidendral

CAS Registry Number: 71724-99-7

Molecular Formula: C₂₁H₂₄O₆

Molecular Weight: 372.417

Accurate Mass: 372.15729

Percentage Composition: C 67.73%; H 6.50%; O 25.78%

Biological Source: Constit. of *Abies sachalinensis*, *D. intermedium*, *Juniperus formosana* and of *Tsuga chinensis* var. *formosana*

Physical Description: Plates (MeOH aq.)

Melting Point: Mp 229° (225-227°)

Other Data: Readily isomerises at C-9. The 9-epimer has been synthesised

>>Derivative: 3',5-Di-Me, 9-Et ether

Synonym(s): **Todolactol D**

CAS Registry Number: 114924-88-8

Molecular Formula: C₂₂H₂₆O₆

Molecular Weight: 386.444

Accurate Mass: 386.17294

Percentage Composition: C 68.38%; H 6.78%; O 24.84%

Biological Source: Isol. from *D. intermedium* and *Abies sachalinensis*

Physical Description: Prisms

Melting Point: Mp 187-191°