



Optical Rotation: $[\alpha]_{\text{D}}^{28} -16.6$ (c, 6.7 in CHCl_3)

UV: [neutral] λ_{max} 228 (); 280 () (MeOH)

>>Derivative: 3,3',4,4',9-Penta-Me ether

Synonym(s): 9-Hydroxy-3,3',4,4',9'-pentamethoxylignan. **Secoisolariciresinol trimethyl ether**

Molecular Formula: $\text{C}_{23}\text{H}_{32}\text{O}_6$

Molecular Weight: 404.502

Accurate Mass: 404.21989

Percentage Composition: C 68.29%; H 7.97%; O 23.73%

Biological Source: Isol. from *Phyllanthus niruri*

Physical Description: Oil

Optical Rotation: $[\alpha]_{\text{D}}^{28} -2.3$ (CHCl_3)

>>Derivative: Hexa-Me ether

Synonym(s): 3,3',4,4',9,9'-Hexamethoxylignan. **Phyllanthin**‡. Tetra-*O*-methylsecoisolariciresinol

CAS Registry Number: 10351-88-9

Molecular Formula: $\text{C}_{24}\text{H}_{34}\text{O}_6$

Molecular Weight: 418.529

Accurate Mass: 418.23554

Percentage Composition: C 68.88%; H 8.19%; O 22.94%

Biological Source: Isol. from *Phyllanthus niruri*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 96° (118°)

Optical Rotation: $[\alpha]_{\text{D}}^{30} +12.42$ (c, 1.45 in CHCl_3)

UV: [neutral] λ_{max} 230 (ϵ 19950); 280 (ϵ 141) (EtOH) (Berdy)

>>Derivative: 3',4'-Methylene, 3-Me ether, 9,9'-di-Ac

Synonym(s): 9,9'-Diacetoxy-4-hydroxy-3-methoxy-3',4'-methylenedioxylicignan. **Justin A**

Molecular Formula: $\text{C}_{24}\text{H}_{28}\text{O}_8$

Molecular Weight: 444.48

Accurate Mass: 444.17842

Percentage Composition: C 64.85%; H 6.35%; O 28.80%

Biological Source: Constit. of *Justicia procumbens*

Physical Description: Oil

Optical Rotation: $[\alpha]_{\text{D}}^{28} -20$ (c, 0.1 in CHCl_3)

UV: [neutral] λ_{max} 235 (); 285 () (MeOH)

>>Derivative: 3,4-Methylene, 3',4'-di-Me ether

Synonym(s): 9,9'-Dihydroxy-3,4-dimethoxy-3',4'-methylenedioxylicignan. **9,9'-Demethylsecolintetralin**

Molecular Formula: $\text{C}_{21}\text{H}_{26}\text{O}_6$

Molecular Weight: 374.433

Accurate Mass: 374.17294

Percentage Composition: C 67.36%; H 7.00%; O 25.64%

Biological Source: Isol. from *Phyllanthus niruri*

Physical Description: Oil

Optical Rotation: $[\alpha]_{\text{D}}^{20} -1.6$ (c, 1.3 in CHCl_3)

Other Data: Abs. config. requires confirmation

>>Derivative: 3,4-Methylene, 3',4'-di-Me ether, 9,9'-di-Ac

Synonym(s): 9,9'-Diacetoxy-3',4'-dimethoxy-3,4-methylenedioxylicignan

Molecular Formula: $\text{C}_{25}\text{H}_{30}\text{O}_8$

Molecular Weight: 458.507

Accurate Mass: 458.19407

Percentage Composition: C 65.49%; H 6.59%; O 27.92%

Biological Source: Constit. of *Justicia procumbens*

Physical Description: Prisms

Melting Point: Mp 52-54°

Optical Rotation: $[\alpha]_{\text{D}}^{28} -9.6$ (c, 2.2 in CHCl_3)