



CAS Registry Number: 67560-68-3

Molecular Formula: C₂₂H₂₈O₆

Molecular Weight: 388.46

Accurate Mass: 388.18859

Percentage Composition: C 68.02%; H 7.26%; O 24.71%

Biological Source: Constit. of *Monechma ciliatum* and *Virola michelii*

Physical Description: Viscous oil

Optical Rotation: [α]_D²⁵ +58 (c, 0.9 in Me₂CO)

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

Synonym(s): 4',9-Dihydroxy-3'-methoxy-3,4-methylenedioxy-7,9'-epoxylignan. **Acuminatin**‡

CAS Registry Number: 118632-19-2

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 aerial parts of *Helichrysum acuminatum*

Physical Description: Oil

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

Synonym(s): **Actifolin**

CAS Registry Number: 120931-63-7

Molecular Formula: C₂₂H₂₄O₇

Molecular Weight: 400.427

Accurate Mass: 400.152205

Percentage Composition: C 65.99%; H 6.04%; O 27.97%

Biological Source: Isol. from *Actinodaphne longifolia*

Physical Description: Oil

Optical Rotation: [α]_D +13.3 (c, 0.48 in CHCl₃)

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

Synonym(s): 9-Hydroxy-3',4'-dimethoxy-3,4-methylenedioxy-7,9'-epoxylignan. **4'-O-Methylacuminatin**

CAS Registry Number: 170515-46-5

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 the kernels of *Virola michelii*

Physical Description: Viscous oil

Optical Rotation: [α]_D²⁵ +4.5 (c, 0.2 in Me₂CO)

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

Synonym(s): 9-Hydroxy-3,4-dimethoxy-3',4'-methylenedioxy-7,9'-epoxylignan

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 *Zanthoxylum culantrillo*

Physical Description: Viscous oil

Optical Rotation: [α]_D²⁵ +14 (c, 1.7 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 229 (log ϵ 3.06); 281 (log ϵ 2.98) (MeOH)

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

Molecular Formula: C₁₈H₂₀O₆

Molecular Weight: 332.352

Accurate Mass: 332.12599

Percentage Composition: C 65.05%; H 6.07%; O 28.88%