



>>Derivative: Bis(methylene) ether

>>Derivative: 7'-Oxo, 3,4-methylene, 3'-Me ether

Synonym(s): 7'-Oxoastrobailignan 6

Molecular Formula: C₂₀H₂₂O₅

Molecular Weight: 342.391

Accurate Mass: 342.146725

Percentage Composition: C 70.16%; H 6.48%; O 23.36%

Biological Source: Isol. from trunkwood of *Nectandra puberula*

Physical Description: Oil

Optical Rotation: [α]_D²²+111 (c, 0.79 in MeOH)

Other Data: Can also be called 7-oxoastrobailignan 6: in the parent tetrol the 7 and 7' posns. are equivalent

>>Derivative: 7'-Oxo, 3,4-methylene, 3',4'-di-Me ether

Synonym(s): 4'-O-Methyl-7-oxoastrobailignan 6

Molecular Formula: C₂₁H₂₄O₅

Molecular Weight: 356.418

Accurate Mass: 356.162375

Percentage Composition: C 70.77%; H 6.79%; O 22.44%

Biological Source: Isol. from *Nectandra puberula*

Physical Description: Oil

Optical Rotation: [α]_D²²+118 (c, 0.53 in MeOH)

>>Derivative: 7,7'-Dioxo, 3,4-methylene, 3',4'-di-Me ether

Synonym(s): 4-O-Methyl-7,7'-dioxoastrobailignan 6

Molecular Formula: C₂₁H₂₂O₆

Molecular Weight: 370.401

Accurate Mass: 370.14164

Percentage Composition: C 68.10%; H 5.99%; O 25.92%

Biological Source: Isol. from trunkwood of *Virola sebifera*

Physical Description: Amorph.

Optical Rotation: [α]_D²⁵-30.5 (CHCl₃)

Other Data: Abs. config. not certain

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

Molecular Formula: C₁₈H₂₂O₄

Molecular Weight: 302.369

Accurate Mass: 302.15181

Percentage Composition: C 71.50%; H 7.33%; O 21.17%

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

Synonym(s): Macelignan. Anwulignan. Calophyn

CAS Registry Number: 107534-93-0

Molecular Formula: C₂₀H₂₄O₄

Molecular Weight: 328.407

Accurate Mass: 328.16746

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Biological Source: Constit. of *Myristica fragrans*, root bark of *Kadsura longipedunculata* and *Schizandra sphenanthera*

Use/Importance: Active against P388 leukaemia and hepatitis B

Physical Description: Cryst. (hexane)

Melting Point: Mp 70-72°

Optical Rotation: [α]_D²⁰+5.28 (c, 1.8 in CHCl₃)

Other Data: Information on abs. config. and identity of the various samples not fully clear. One sample of Anwulignan appears to be racemic