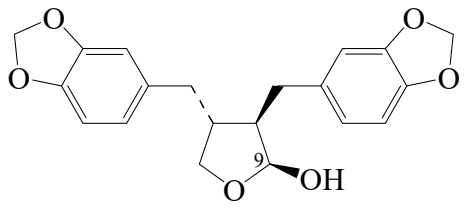
>>**Entry Name: Cubebin**

Synonym(s): 3,4-Bis(1,3-benzodioxol-5-ylmethyl)tetrahydro-2-furanol, 9Cl. 9-Hydroxy-3,4:3',4'-bis(methylenedioxy)-9,9'-epoxylignan. β-Cubebin



CAS Registry Number: 18423-69-3
Related CAS Registry Numbers(s): 112448-61-0 112448-62-1

Molecular Formula: $C_{20}H_{20}O_6$
Molecular Weight: 356.374
Accurate Mass: 356.12599
Percentage Composition: C 67.41%; H 5.66%; O 26.94%
Biological Source: Isol. from unripe fruit of *Piper cubeba*, also from *Aristolochia* spp., *Virola* spp. and other plants
Use/Importance: Shows urinary stimulant props.
Physical Description: Cryst. (EtOH or C_6H_6)
Melting Point: Mp 131-132°
Optical Rotation: $[\alpha]_D^{14}$ –17.1 (Me_2CO). $[\alpha]_D^{14}$ –45.7 ($CHCl_3$)
Other Data: Readily epimerises at C-9

>>**Derivative:** Et ether
Synonym(s): ***O*-Ethylcubebin**

CAS Registry Number: 146830-09-3

Molecular Formula: $C_{22}H_{24}O_6$
Molecular Weight: 384.428
Accurate Mass: 384.15729
Percentage Composition: C 68.74%; H 6.29%; O 24.97%
Biological Source: Constit. of *Piper cubeba* and *Piper clusii*
Physical Description: Visc. solid

>>**Derivative:** 9-Epimer
Synonym(s): α-Cubebin

CAS Registry Number: 112458-74-9
Molecular Formula: $C_{20}H_{20}O_6$
Molecular Weight: 356.374
Accurate Mass: 356.12599
Percentage Composition: C 67.41%; H 5.66%; O 26.94%
Biological Source: Constit. of *Aristolochia birostris*

>>**Derivative:** Me ether
Synonym(s): 9-Methoxy-3,4:3',4'-bis(methylenedioxy)-9,9'-epoxylignan. ***O*-Methyl-β-cubebin**

Molecular Formula: $C_{21}H_{22}O_6$
Molecular Weight: 370.401
Accurate Mass: 370.14164
Percentage Composition: C 68.10%; H 5.99%; O 25.92%
Biological Source: Constit. of *Virola surinamensis*
Physical Description: Amorph. solid
Optical Rotation: $[\alpha]_D$ –2.2 (c, 0.2 in $CHCl_3$)

>>**Derivative:** 9-Epimer, Me ether
Synonym(s): ***O*-Methyl-α-cubebin**

Molecular Formula: $C_{21}H_{22}O_6$
Molecular Weight: 370.401
Accurate Mass: 370.14164
Percentage Composition: C 68.10%; H 5.99%; O 25.92%
Biological Source: Constit. of *Virola surinamensis*
Physical Description: Oil
Optical Rotation: $[\alpha]_D$ –17.9 (c, 0.2 in $CHCl_3$)

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