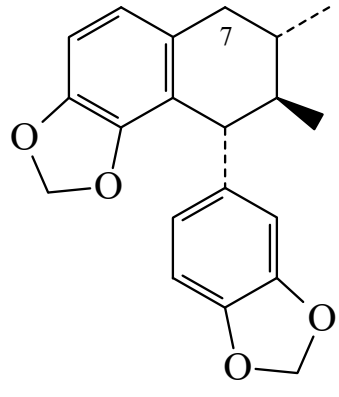
>>**Entry Name: Otobain**
ENTRY UNDER REVIEW
Synonym(s): 3,4:3',4'-Bis(methylenedioxy)-2,7'-cyclolignan. Otobite



(_)-*form*

Molecular Formula: $C_{20}H_{20}O_4$
Molecular Weight: 324.376
Accurate Mass: 324.13616
Percentage Composition: C 74.06%; H 6.21%; O 19.73%

>>**Variant:** (–)-form

CAS Registry Number: 3738-01-0

Molecular Formula: $C_{20}H_{20}O_4$
Molecular Weight: 324.376
Accurate Mass: 324.13616
Percentage Composition: C 74.06%; H 6.21%; O 19.73%
Biological Source: Isol. from fruits of *Myristica otoba* and *Myristica simarum*
Physical Description: Cryst. (petrol)
Melting Point: Mp 136-137°
Optical Rotation: $[\alpha]_D$ –43 (c, 0.8 in $CHCl_3$)

>>**Derivative:** 7-Oxo
Synonym(s): Otobanone. 7-Oxootobain

CAS Registry Number: 34426-79-4

Molecular Formula: $C_{20}H_{18}O_5$
Molecular Weight: 338.359
Accurate Mass: 338.115425
Percentage Composition: C 71.00%; H 5.36%; O 23.64%
Biological Source: Isol. from *Myristica simarum* and from nutmeg (*Myristica fragrans*)
Melting Point: Mp 175-176°
Optical Rotation: $[\alpha]_D$ –27.1 (c, 0.7 in $CHCl_3$)

>>**Variant:** (+)-form

Molecular Formula: $C_{20}H_{20}O_4$
Molecular Weight: 324.376
Accurate Mass: 324.13616
Percentage Composition: C 74.06%; H 6.21%; O 19.73%

>>**Derivative:** 5-Methoxy, 7',8'*R*-didehydro
Synonym(s): 5-Methoxy-3,4:3',4'-bis(methylenedioxy)-2,7'-cyclolign-7'-ene

CAS Registry Number: 98767-35-2

Molecular Formula: $C_{21}H_{20}O_5$
Molecular Weight: 352.386
Accurate Mass: 352.131075
Percentage Composition: C 71.58%; H 5.72%; O 22.70%
Biological Source: Constit. of *Virola calophylloidea*
Physical Description: Cryst. (MeOH)
Melting Point: Mp 152°
Optical Rotation: $[\alpha]_D^{20}$+51.7 (c, 0.8 in $CHCl_3$)
UV: [neutral] λ_{max} 279 (ε 1200); 292 (ε 1050); 332 (ε 300) (MeOH)