



>>Derivative: 15,19-Di-Ac

Synonym(s): 15,19-Diacetylagathadiol

Molecular Formula: $C_{24}H_{38}O_4$

Molecular Weight: 390.562

Accurate Mass: 390.27701

Percentage Composition: C 73.81%; H 9.81%; O 16.39%

Biological Source: Constit. of *Cryptomeria japonica*

Physical Description: Oil

Optical Rotation: $[\alpha]_D^{28} +19$ (c, 1 in $CHCl_3$)

>>Derivative: 15-Aldehyde

Synonym(s): 19-Hydroxy-8(17),13*E*-labdadien-15-al

CAS Registry Number: 10266-89-4

Molecular Formula: $C_{20}H_{32}O_2$

Molecular Weight: 304.472

Accurate Mass: 304.24023

Percentage Composition: C 78.90%; H 10.59%; O 10.51%

Biological Source: Isol. from *Juniperus thurifera*

Physical Description: Cryst.

Melting Point: Mp 112°

Optical Rotation: $[\alpha]_D^{23} +26.8$ ($CHCl_3$)

>>Derivative: 19-Aldehyde

Synonym(s): 15-Hydroxy-8(17),13*E*-labdadien-19-al. **Agatholal**. Contortolal. Isoagatholal

CAS Registry Number: 3650-31-5

Molecular Formula: $C_{20}H_{32}O_2$

Molecular Weight: 304.472

Accurate Mass: 304.24023

Percentage Composition: C 78.90%; H 10.59%; O 10.51%

Biological Source: Consist. of *Thujopsis dolabrata* and *Pinus contorta*

Physical Description: Oil

Optical Rotation: $[\alpha]_D +22.5$ (c, 1 in $CHCl_3$)

>>Derivative: 19-Aldehyde, 15-*O*-β-D-xylopyranoside

Synonym(s): Isoagatholal xylopyranoside

CAS Registry Number: 73493-46-6

Molecular Formula: $C_{25}H_{40}O_6$

Molecular Weight: 436.587

Accurate Mass: 436.28249

Percentage Composition: C 68.78%; H 9.23%; O 21.99%

Biological Source: Isol. from *Thujopsis dolabrata*

Physical Description: Amorph. solid (EtOAc)

Melting Point: Mp 132-140 dec.°

Optical Rotation: $[\alpha]_D^{24} -35$ (c, 1 in $CHCl_3$)

>>Derivative: 15-Carboxylic acid

Synonym(s): 19-Hydroxy-8(17),13*E*-labdadien-15-oic acid. **Agatholic acid**

CAS Registry Number: 25671-16-3

Molecular Formula: $C_{20}H_{32}O_3$

Molecular Weight: 320.471

Accurate Mass: 320.235145

Percentage Composition: C 74.96%; H 10.06%; O 14.98%

Biological Source: Constit. of Manila copal

Physical Description: Cryst. (MeOH/EtOAc)

Melting Point: Mp 184-186°

Optical Rotation: $[\alpha]_D +42$ (c, 2 in EtOH)