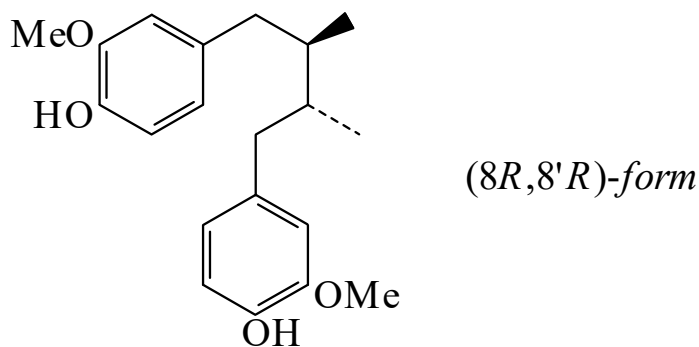




>>Entry Name: 4,4'-Dihydroxy-3,3'-dimethoxylignan

Synonym(s): Dihydroguaiaretic acid



CAS Registry Number: 36469-60-0

Molecular Formula: C₂₀H₂₆O₄

Molecular Weight: 330.423

Accurate Mass: 330.18311

Percentage Composition: C 72.70%; H 7.93%; O 19.37%

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

CAS Registry Number: 124649-78-1

Molecular Formula: C₂₀H₂₆O₄

Molecular Weight: 330.423

Accurate Mass: 330.18311

Percentage Composition: C 72.70%; H 7.93%; O 19.37%

Biological Source: Isol. from *Larrea divaricata*, *Saururus cernuus* and *Pycnanthus angolensis*

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 87-88°

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

CAS Registry Number: 174291-55-5

Molecular Formula: C₂₀H₂₆O₄

Molecular Weight: 330.423

Accurate Mass: 330.18311

Percentage Composition: C 72.70%; H 7.93%; O 19.37%

Biological Source: Isol. from *Sargentodoxa cuneata*

Melting Point: Mp 82-82.5°

Optical Rotation: $[\alpha]_D^{23} +4.87$ (c, 0.914 in CHCl₃)

>>Variant: (8*RS*,8'*SR*)-form

Synonym(s): *meso*-form

CAS Registry Number: 66322-34-7

Molecular Formula: C₂₀H₂₆O₄

Molecular Weight: 330.423

Accurate Mass: 330.18311

Percentage Composition: C 72.70%; H 7.93%; O 19.37%

Biological Source: Constit. of *Portlieria chilensis*, *Myristica argentea* and *Larrea divaricata*

Melting Point: Mp 90°

Solubility: BERDY SOL: Poorly sol. hexane

References:

- Schrecker, A.W., *J.A.C.S.*, 1957, **79**, 3823-3827, (*isol, meso-form*)
Gisvold, O. *et al.*, *J. Pharm. Sci.*, 1974, **63**, 1905-1907, (*isol, meso-form*)
Han, G.-Q. *et al.*, *Yaoxue Xuebao*, 1986, **21**, 68-70, (*isol, (+)-form*)
Torres, R. *et al.*, *J. Nat. Prod.*, 1989, **52**, 402-403, (*isol, meso-form*)
Rao, K.V. *et al.*, *J.O.C.*, 1990, **55**, 1427-1429, (*(-)-form, isol, synth*)
Njoku, C.J. *et al.*, *Planta Med.*, 1997, **63**, 580-581, (*(-)-form, isol, activity*)
Filleur, F. *et al.*, *Planta Med.*, 2001, **67**, 700-704, (*meso-form, isol*)