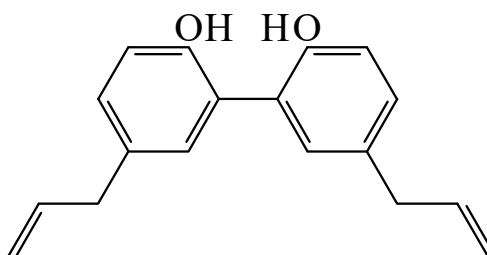




>>Entry Name: Magnolol

Synonym(s): 5,5'-Di-2-propenyl-[1,1'-biphenyl]-2,2'-diol, 9Cl. 5,5'-Diallyl-2,2'-dihydroxybiphenyl



CAS Registry Number: 528-43-8

Molecular Formula: C₁₈H₁₈O₂

Molecular Weight: 266.339

Accurate Mass: 266.13068

Percentage Composition: C 81.17%; H 6.81%; O 12.01%

Biological Source: Constit. of *Sassafras randaiense* and *Magnolia* spp.

Use/Importance: Antibacterial, antifungal agent. Antiplatelet agent. CNS depressant with serotonergic activity. Shows antiinflammatory and analgesic effects

Physical Description: Cryst. (Et₂O/hexane)

Melting Point: Mp 101.5-102°

Solubility: BERDY SOL: Poorly sol. hexane

Calculated Log P Data: Log P 4.84 (calc)

UV: [neutral] λ_{max} 293 (ε 7950) (MeOH) (Berdy) [base] λ_{max} 223 (ε 29300); 279 (ε 6420); 320 (ε 10700) (MeOH-NAOH) (Berdy) [neutral] λ_{max} 204 (ε 49500); 275 (ε 5440) (EtOH) (Berdy)

>>Derivative: Bornyl ether

Synonym(s): Bornylmagnolol

CAS Registry Number: 92911-80-3

Molecular Formula: C₂₈H₃₄O₂

Molecular Weight: 402.575

Accurate Mass: 402.25588

Percentage Composition: C 83.54%; H 8.51%; O 7.95%

Biological Source: Constit. of *Magnolia officinalis*

Physical Description: Viscous oil

Optical Rotation: [α]_D²⁶ -7.6 (c, 1.67 in CHCl₃)

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Tsai, T.-H. *et al.*, *Neurosci. Lett.*, 1995, **186**, 49, (*pharmacol*)