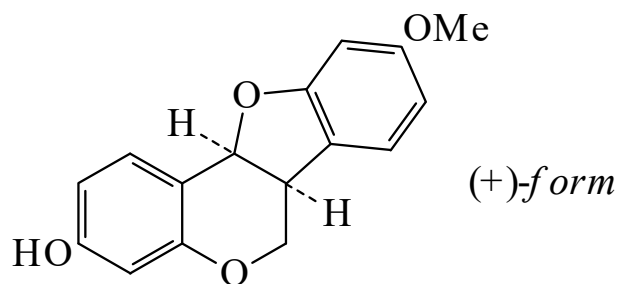




>>Entry Name: 3-Hydroxy-9-methoxypterocarpan

Synonym(s): 6*a*,11*a*-Dihydro-9-methoxy-6*H*-benzofuro[3,2-*c*][1]benzopyran-3-ol, 9*Cl*. **Medicarpin**. Demethylhomopterocarpan



Molecular Formula: C₁₆H₁₄O₄

Molecular Weight: 270.284

Accurate Mass: 270.08921

Percentage Composition: C 71.10%; H 5.22%; O 23.68%

Biological Source: Medicarpin (various stereoisomers or stereoisomerism not defined) is v. widespread in the Leguminosae subf. Papilionoideae mainly as a phytoalexin. Also found in *Osteophloeum platyspermum* (Myricaceae)

>>Variant: (+)-form

CAS Registry Number: 33983-39-0

Molecular Formula: C₁₆H₁₄O₄

Molecular Weight: 270.284

Accurate Mass: 270.08921

Percentage Composition: C 71.10%; H 5.22%; O 23.68%

Biological Source: Isol. from heartwood of *Dalbergia nitidula* and *Dalbergia decipularis*

Melting Point: Mp 127-128°

>>Variant: (–)-form

CAS Registry Number: 32383-76-9

Molecular Formula: C₁₆H₁₄O₄

Molecular Weight: 270.284

Accurate Mass: 270.08921

Percentage Composition: C 71.10%; H 5.22%; O 23.68%

Biological Source: Obt. from heartwood of *Dalbergia* spp. and from *Swartzia madagascariensis* and numerous other plants

Melting Point: Mp 127.5-128.5°

Optical Rotation: $[\alpha]_{\text{D}}^{22}$ –226 (CHCl₃)

UV: [neutral] λ_{max} 207 (ε 72443); 282 (ε 9332); 287 (ε 100300); 310 (ε 2400) (MeOH) (Berdy) [neutral] λ_{max} 280 (); 285 () (EtOH) (Berdy)

>>Derivative: Ac

CAS Registry Number: 38822-03-6

Physical Description: Needles (EtOAc)

Melting Point: Mp 122-123°

>>Derivative: *O*-β-D-Glucopyranoside

Molecular Formula: C₂₂H₂₄O₉

Molecular Weight: 432.426

Accurate Mass: 432.142035

Percentage Composition: C 61.11%; H 5.59%; O 33.30%

Biological Source: Isol. from roots of *Medicago sativa*, *Ononis spinosa*, *Trifolium repens* and *Trifolium hybridum*

Melting Point: Mp 270-272°

Optical Rotation: $[\alpha]_{\text{D}}^{23}$ –149 (c, 0.9 in Py)