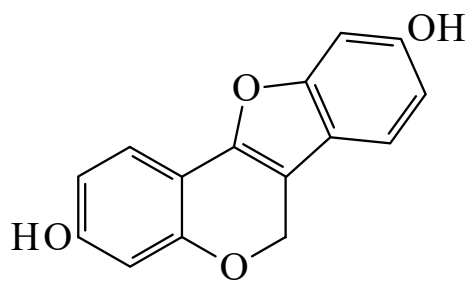




>>Entry Name: 3,9-Dihydroxypterocarpene

Synonym(s): 6*H*-Benzofuro[3,2-*c*][1]benzopyran-3,9-diol, 9Cl. Anhydroglycinol



CAS Registry Number: 67685-22-7

Type of Compound Code(s): VK3500

Molecular Formula: C₁₅H₁₀O₄

Molecular Weight: 254.242

Accurate Mass: 254.05791

Percentage Composition: C 70.86%; H 3.96%; O 25.17%

Biological Source: Isol. from heartwood of *Lespedeza cyrtobotrya*; phytoalexin from *Tetragonolobus maritimus* R1

Biological Use/Importance: Antioxidant and antiallergic agent

Physical Description: Cryst. (MeOH/CHCl₃)

Melting Point: Mp 207-209 dec.°

>>Derivative: 3-Me ether

Synonym(s): 9-Hydroxy-3-methoxypterocarpene. Lespedezol A₁

Type of Compound Code(s): VK3500

Molecular Formula: C₁₆H₁₂O₄

Molecular Weight: 268.268

Accurate Mass: 268.07356

Percentage Composition: C 71.64%; H 4.51%; O 23.86%

Biological Source: Constit. of *Lespedeza homoloba*

Use/Importance: Antioxidant

Physical Description: Amorph. powder

UV: [neutral] λ_{max} 229 (sh) (log ε 4.17); 289 (log ε 3.86); 326 (log ε 4.22) (MeOH)

>>Derivative: Di-Me ether

Synonym(s): 3,9-Dimethoxypterocarpene. 3,9-Dimethoxy-6*H*-benzofuro[3,2-*c*][1]benzopyran, 9Cl. Anhydrovariabilin

CAS Registry Number: 1433-08-5

Type of Compound Code(s): VK3500

Molecular Formula: C₁₇H₁₄O₄

Molecular Weight: 282.295

Accurate Mass: 282.08921

Percentage Composition: C 72.33%; H 5.00%; O 22.67%

Biological Source: Isol. from heartwoods of *Dalbergia decipularis* and *Swartzia madagascariensis*

Physical Description: Prisms (EtOH)

Melting Point: Mp 116° (110-112°)

References:

- Bowyer, W.J. *et al.*, *J.C.S.*, 1964, 4212, (*synth, deriv*)
Harper, S.H. *et al.*, *J.C.S.(C)*, 1969, 1109, (*isol, deriv*)
De Alencar, R. *et al.*, *Phytochemistry*, 1972, **11**, 1517, (*isol, deriv*)
Miyase, T. *et al.*, *Chem. Pharm. Bull.*, 1980, **28**, 1172, (*isol, uv, ir, pmr*)
Miyase, T. *et al.*, *Phytochemistry*, 1999, **52**, 303-310, (*isol, cmr*)