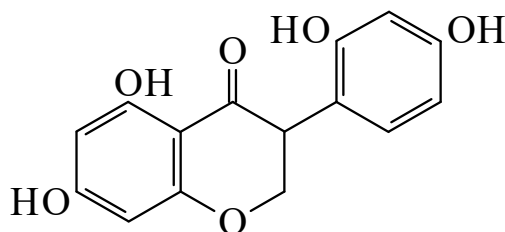




>>Entry Name: 2',4',5,7-Tetrahydroxyisoflavanone

Synonym(s): 2,3-Dihydro-5,7-dihydroxy-3-(2,4-dihydroxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl. **Dalbergioidin**



CAS Registry Number: 30368-42-4

Related CAS Registry Numbers(s): 66152-08-7

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

Biological Source: Isol. from *Dolichos biflorus*, *Lablab niger*, *Lespedeza cyrtobotrya*, *Macrotyloma axillare*, *Ougeinia dalbergioides*, *Phaseolus vulgaris* and *Stizolobium deeringianum* (all Leguminosae, Papilionoideae)

UV: [neutral] λ_{max} 201 (); 289 (); 291 (ε 7000) (MeOH) (Berdy) [neutral] λ_{max} 288 (ε 22000) (EtOH) (Berdy) [base] λ_{max} 323 () (MeOH-NAOH) (Berdy)

>>Derivative: 2'-Me ether

Synonym(s): 4',5,7-Trihydroxy-2'-methoxyisoflavanone. **Isoferreirin**

CAS Registry Number: 76656-75-2

Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

Biological Source: Constit. of *Dolichos biflorus* and *Stizolobium deeringianum*

UV: [neutral] λ_{max} 212 (); 229 (); 289 () (MeOH) (Berdy) [base] λ_{max} 214 (); 244 (); 324 () (MeOH-NAOH) (Berdy) [neutral] λ_{max} 225 (); 288 (); 330 () (EtOH) (Berdy)

>>Derivative: 4'-Me ether

Synonym(s): 2',5,7-Trihydroxy-4'-methoxyisoflavanone. **Ferreirin**

CAS Registry Number: 32898-79-6

Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

Biological Source: Isol. from heartwood of *Ferreirea spectabilis* also from *Haplormosia monophylla* and *Cajanus cajan*

Physical Description: Prisms (MeOH aq. or petrol)

Melting Point: Mp 210-212°

Solubility: BERDY SOL: Sol. MeOH, EtOAc; poorly sol. H₂O

UV: [neutral] λ_{max} 288 () (MeOH) (Berdy) [base] λ_{max} 324 () (MeOH-NAOH) (Berdy)

>>Derivative: 7-Me ether

Synonym(s): 2',4',5-Trihydroxy-7-methoxyisoflavanone. **Dihydrocajanin**

Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

Biological Source: Constit. of the heartwood of *Swartzia polyphylla*

Physical Description: Cryst.

Melting Point: Mp 214-216°

UV: [neutral] λ_{max} 211 (ε 31600); 287 (ε 20900) (EtOH) (Berdy)

Other Data: Racemic