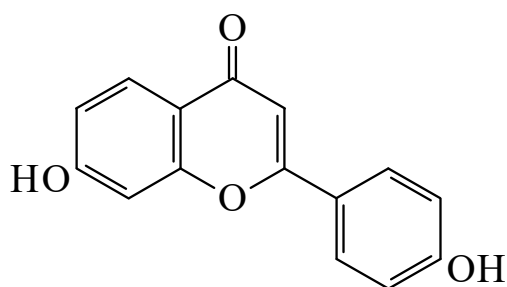




>>Entry Name: 4',7-Dihydroxyflavone

Synonym(s): 7-Hydroxy-2-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one



CAS Registry Number: 2196-14-7

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 the heartwood of *Pterocarpus marsupium*

Physical Description: Pale-yellow cryst. powder

Melting Point: Mp 315°

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

UV: [neutral] λ_{max} 253 (ε 15000); 312 (ε 30000); 328 (ε 33000) (MeOH) (Berdy)

>>Derivative: 7-*O*-β-D-Glucopyranoside

CAS Registry Number: 20633-86-7

Molecular Formula: C₂₁H₂₀O₉

Molecular Weight: 416.384

Accurate Mass: 416.110735

Percentage Composition: C 60.58%; H 4.84%; O 34.58%

Biological Source: Isol. from seeds of *Thermopsis* spp.; also present in *Trifolium subterraneum* and *Baptisia lecontei*

Physical Description: Cryst. (AcOH aq.)

Melting Point: Mp 245-247°

>>Derivative: 4'-*O*-β-D-Glucopyranoside

Synonym(s): Sophoraflavone B

CAS Registry Number: 22052-75-1

Molecular Formula: C₂₁H₂₀O₉

Molecular Weight: 416.384

Accurate Mass: 416.110735

Percentage Composition: C 60.58%; H 4.84%; O 34.58%

Biological Source: Isol. from roots of *Sophora subprostrata*

Physical Description: Needles (MeOH)

Melting Point: Mp 297-300 dec.°

Optical Rotation: [α]_D²⁵ -48 (c, 0.2 in MeOH)

>>Derivative: 7-*O*-β-D-Glucuronopyranoside

CAS Registry Number: 83086-29-7

Molecular Formula: C₂₁H₁₈O₁₀

Molecular Weight: 430.367

Accurate Mass: 430.09

Percentage Composition: C 58.61%; H 4.22%; O 37.18%

Biological Source: Isol. from *Medicago arabica*