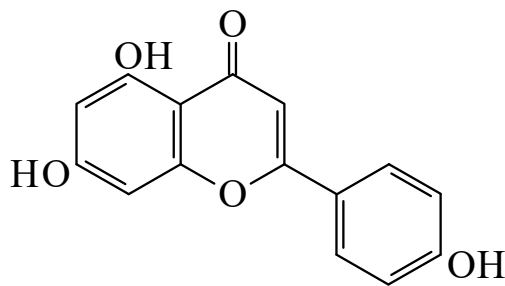




>>Entry Name: 4',5,7-Trihydroxyflavone

Synonym(s): 5,7-Dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one, 9CI. **Apigenin**. Apigenol. Pelargidenone. Versulin



CAS Registry Number: 520-36-5

Related CAS Registry Numbers(s): 14134-41-9 28629-51-8 41375-89-7 88083-10-7

Molecular Formula: C₁₅H₁₀O₅

Molecular Weight: 270.241

Accurate Mass: 270.052825

Percentage Composition: C 66.67%; H 3.73%; O 29.60%

Use/Importance: Used as EtOH soln. for photometric detn. of Al ($\lambda_{\max}$ 380 nm, ϵ 23000) rare earth elements, Be, Zr, Cd

Biological Use/Importance: Shows antineoplastic activity *in vitro*, antispasmodic agent

Physical Description: Yellow needles (Py aq.)

Melting Point: Mp 352°

Solubility: Sol. EtOH, MeOH

Calculated Log P Data: Log P 0.98 (calc)

UV: [neutral] $\lambda_{\max}$ 269 (ϵ 18800); 340 (ϵ 20900) (MeOH) (Berdy)

Aldrich: 46074-5

Fluka: 10798

Rare Chemicals Library: S43791-3

Sigma: A3145

>>Derivative: 7-O-Sulfate

CAS Registry Number: 56857-56-8

Molecular Formula: C₁₅H₁₀O₈S

Molecular Weight: 350.305

Accurate Mass: 350.00964

Percentage Composition: C 51.43%; H 2.88%; O 36.54%; S 9.15%

Biological Source: Isol. from *Bixa orellana*

Physical Description: No phys. props. reported

>>Derivative: 4'-O- α -L-Arabinopyranoside

Synonym(s): Apigenin 4'-arabinoside

Molecular Formula: C₂₀H₁₈O₉

Molecular Weight: 402.357

Accurate Mass: 402.095085

Percentage Composition: C 59.70%; H 4.51%; O 35.79%

Biological Source: Isol. from *Bommeria hispida*

>>Derivative: 7-O- α -L-Arabinopyranoside

Synonym(s): Apigenin 7-arabinoside

CAS Registry Number: 77610-88-9

Molecular Formula: C₂₀H₁₈O₉

Molecular Weight: 402.357

Accurate Mass: 402.095085

Percentage Composition: C 59.70%; H 4.51%; O 35.79%

Biological Source: Isol. from *Hieracium umbellatum* and *Marrubium alysson*

Melting Point: Mp 252-255°