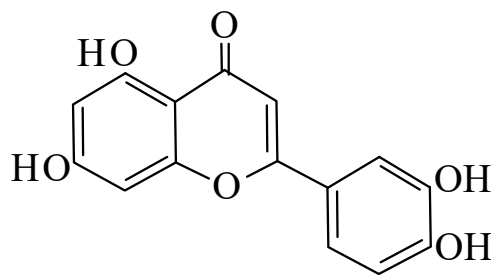




>>Entry Name: 3',4',5,7-Tetrahydroxyflavone

ENTRY UNDER REVIEW

Synonym(s): 2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4*H*-1-benzopyran-4-one, 9CI. **Luteolin**. Digitoflavone. Daphneflavonol. Flavopurpol. Luteolol



CAS Registry Number: 491-70-3

Related CAS Registry Numbers(s): 18695-03-9 54985-16-9 62804-16-4 98716-92-8 102506-55-8

Molecular Formula: C₁₅H₁₀O₆

Molecular Weight: 286.24

Accurate Mass: 286.04774

Percentage Composition: C 62.94%; H 3.52%; O 33.54%

Biological Source: Occurs in many plants in Leguminosae, Resedaceae, Euphorbiaceae, Umbelliferae, Scrophulariaceae, Fabaceae, Asteraceae, Cistaceae, Passifloraceae, Yrbenaceae and Hepaticae. First isol. in 1832 from *Reseda luteola*

Use/Importance: Used in EtOH soln. for colour reactions with Al, Be, Cd, Cu, Zr, B

Biological Use/Importance: Antiinflammatory, antispasmodic, antitussive agent. Antitumourigenic activity in mice reported. Shows anti-HIV activity.

Physical Description: Yellow needles

Melting Point: Mp 328-330° (325°)

Calculated Log P Data: Log P 0.38 (calc)

UV: [neutral] λ_{max} 255 (); 351 () (MeOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, ipr) 180 mg/kg. Exp. reprod. effects ; BERDY HAZD : LD₅₀ (mus, ipr) 180 mg/kg

Sigma: L9283

>>Derivative: 3'-*O*-Sulfate

Synonym(s): Luteolin 3'-sulfate

CAS Registry Number: 59176-61-3

Molecular Formula: C₁₅H₁₀O₉S

Molecular Weight: 366.305

Accurate Mass: 366.004555

Percentage Composition: C 49.18%; H 2.75%; O 39.31%; S 8.75%

Biological Source: Isol. from *Lachenalia unifolia*

>>Derivative: 4'-*O*-Sulfate

Synonym(s): Luteolin 4'-sulfate

CAS Registry Number: 60889-07-8

Molecular Formula: C₁₅H₁₀O₉S

Molecular Weight: 366.305

Accurate Mass: 366.004555

Percentage Composition: C 49.18%; H 2.75%; O 39.31%; S 8.75%

Biological Source: Isol. from *Daucus carota*

>>Derivative: 7'-*O*-Sulfate

Synonym(s): Luteolin 7'-sulfate

CAS Registry Number: 56857-57-9

Molecular Formula: C₁₅H₁₀O₉S

Molecular Weight: 366.305

Accurate Mass: 366.004555

Percentage Composition: C 49.18%; H 2.75%; O 39.31%; S 8.75%

Biological Source: Isol. from *Bixa orellana*