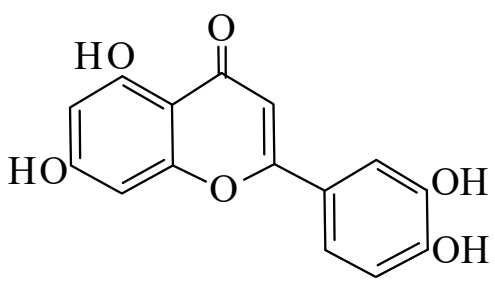
>>**Entry Name: 3',4',5,7-Tetrahydroxyflavone**
ENTRY UNDER REVIEW
Synonym(s): 2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-4*H*-1-benzopyran-4-one, 9Cl. **Luteolin.** Digitoflavone. Daphneflavonol. Flavopurpol. Luteolol



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: $C_{15}H_{10}O_6$
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, Yerbenaceae 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: LD_{50} (mus, ipr) 180 mg/kg. Exp. reprod. effects ; BERDY HAZD : LD_{50} (mus, ipr) 180 mg/kg

Sigma: L9283

>>**Derivative:** 3'-*O*-Sulfate
Synonym(s): Luteolin 3'-sulfate

CAS Registry Number: 59176-61-3

Molecular Formula: $C_{15}H_{10}O_9S$
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: $C_{15}H_{10}O_9S$
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: $C_{15}H_{10}O_9S$
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*