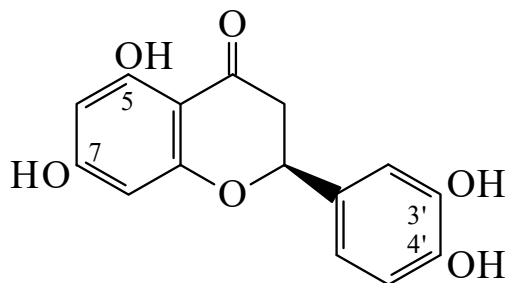




>>Entry Name: 3',4',5,7-Tetrahydroxyflavanone

Synonym(s): 2-(3,4-Dihydroxyphenyl)-2,3-dihydro-5,7-dihydroxy-4*H*-1-benzopyran-4-one, 9Cl. **Eriodictyol**. Huazhongilexone



CAS Registry Number: 4049-38-1

Related CAS Registry Numbers(s): 4250-76-4 66568-98-7 75917-11-2 93012-86-3 111322-81-7 116301-03-2

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

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

Calculated Log P Data: Log P 1.2 (uncertain value) (calc)

>>Variant: (S)-form

CAS Registry Number: 552-58-9

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

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

Biological Source: Widespread flavanone of the Compositae, also found in the Guttiferae, Labiatae, Rhamnaceae, Gramineae, Papaveraceae, Aspleniaceae, Verbenaceae, Rubiaceae, Hydrangeaceae, Coniferae, Myoporaceae, Capparaceae, Clusiaceae, Ericaceae, Euphorbiaceae, Rosaceae, Hydrophyllaceae, Leguminosae, Crassulaceae, Cruciferae, Balanophoraceae and Eucryphiaceae

Biological Use/Importance: Possesses expectorant activity

Physical Description: Plates (EtOH)

Melting Point: Mp 267°

UV: [neutral] λ_{max} 290 (ε 346); 326 (ε 140) (MeOH) (Berdy)

>>Derivative: 5-*O*-α-L-Rhamnopyranoside

CAS Registry Number: 71481-42-0

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

Biological Source: Isol. from *Cleome viscosa*

Physical Description: Yellow needles (EtOAc/petrol)

Melting Point: Mp 78-80°

>>Derivative: 7-*O*-α-L-Rhamnopyranoside

Synonym(s): Eriodictin

CAS Registry Number: 480-35-3

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

Biological Source: Isol. from juice of *Citrus limettioides* and *Phyllanthus niruri*

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 184-186 dec.°

Optical Rotation: [α]_D²⁰ -51.5 (Py)