



>>Variant: (S)-form

CAS Registry Number: 480-41-1

Molecular Formula: C₁₅H₁₂O₅

Molecular Weight: 272.257

Accurate Mass: 272.068475

Percentage Composition: C 66.17%; H 4.44%; O 29.38%

Biological Source: Most widely distributed flavanone, found in the Compositae, Labiatae, Theaceae, Chrysobalanaceae, Leguminosae, Solanaceae, Cactaceae, Coniferae, Salicaceae, Acanthaceae, Verbenaceae, Anacardiaceae, Athyriaceae, Capparaceae, Dilleniaceae, Dryopteridaceae, Equisetaceae, Lauraceae, Meliaceae, Pinaceae, Myrtaceae, Cruciferae, Balanophoraceae, and Fagaceae. Also prod. by *Streptomyces graminofaciens*

Use/Importance: Used as 0.5% soln. in EtOH for photometric detn. of Al, Be, Cu, F, Sb, Sn, Fe, Zr, Th, Bi, Pb

Biological Use/Importance: Antagonist to gibberellins in dormant peach buds

Physical Description: Yellowish cryst.

Melting Point: Mp 250-251° (227-228°)

Optical Rotation: $[\alpha]_D^{27} -22.5$ (MeOH)

Solubility: Sol. EtOH, alkalis; sl. sol. H₂O

Other Data: Originally isol. in 1907 but incorr. descr. as a chalcone

Aldrich: T6600-1

Sigma: N1251

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

CAS Registry Number: 158694-66-7

Molecular Formula: C₂₁H₂₂O₉

Molecular Weight: 418.399

Accurate Mass: 418.126385

Percentage Composition: C 60.28%; H 5.30%; O 34.42%

Biological Source: Constit. of *Crotalaria striata*

Physical Description: Pale yellow cryst. (MeOH)

Melting Point: Mp 205-206°

UV: [neutral] $\lambda_{\max}$ 286 (); 326 (sh) () (MeOH)

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

CAS Registry Number: 83697-42-1

Molecular Formula: C₂₁H₂₂O₉

Molecular Weight: 418.399

Accurate Mass: 418.126385

Percentage Composition: C 60.28%; H 5.30%; O 34.42%

Biological Source: Isol. from *Prunus cerasoides*

Physical Description: Yellowish plates (MeOH aq.)

Melting Point: Mp 135-137°

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

Synonym(s): Naringerin

CAS Registry Number: 67023-33-0

Molecular Formula: C₂₁H₂₂O₉

Molecular Weight: 418.399

Accurate Mass: 418.126385

Percentage Composition: C 60.28%; H 5.30%; O 34.42%

Biological Source: Isol. from *Litsea glutinosa*

Melting Point: Mp 146-148°