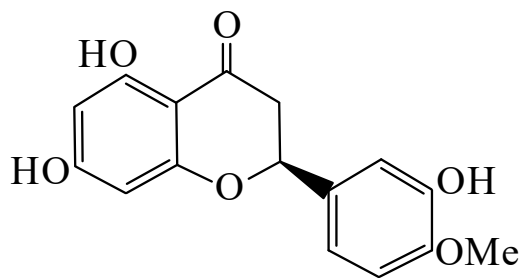




>>Entry Name: 3',5,7-Trihydroxy-4'-methoxyflavanone

ENTRY UNDER REVIEW

Synonym(s): 2,3-Dihydro-5,7-dihydroxy-2-(3-hydroxy-4-methoxyphenyl)-4H-1-benzopyran-4-one, 9CI. 5,7,3'-Trihydroxy-4'-methoxyflavanone. **Hesperetin**. Hesperitin



Related CAS Registry Numbers(s): 31712-49-9

Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

>>Variant: (S)-form

CAS Registry Number: 520-33-2

Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

Biological Source: Isol. from *Brickellia vernicosa*, nectarine (*Persica vulgaris*), *Citrus* and *Mentha* spp.

Use/Importance: Used as 0.01M MeOH soln. for fluorimetric detn. of Al; photometric detn. of U(VI), Fe(III), Be, Cd, Sb, Th, Zr. Antispasmodic agent

Physical Description: Plates (EtOH)

Melting Point: Mp 228-230°

Optical Rotation: $[\alpha]_D^{27} -37.6$ (c, 1.8 in EtOH)

Solubility: Sol. EtOH, alkalis

Rare Chemicals Library: S40917-0

>>Derivative: 5-O-β-D-Glucopyranoside

CAS Registry Number: 69651-80-5

Molecular Formula: C₂₂H₂₄O₁₁

Molecular Weight: 464.425

Percentage Composition: C 56.90%; H 5.21%; O 37.89%

Biological Source: Isol. from *Persica vulgaris* stem bark

Melting Point: Mp 257-258°

Optical Rotation: $[\alpha]_D -112.8$ (EtOH)

>>Derivative: 7-O-β-D-Glucopyranoside

Synonym(s): Glucohesperetin

CAS Registry Number: 2500-68-7

Molecular Formula: C₂₂H₂₄O₁₁

Molecular Weight: 464.425

Accurate Mass: 464.131865

Percentage Composition: C 56.90%; H 5.21%; O 37.89%

Biological Source: Isol. from water mint *Mentha aquatica*

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 206°

Optical Rotation: $[\alpha]_D^{19} -53.9$ (Py)