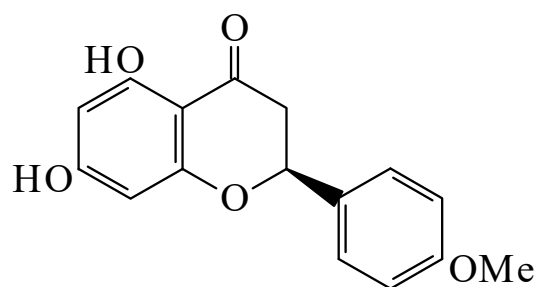




>>Entry Name: 5,7-Dihydroxy-4'-methoxyflavanone

Synonym(s): 2,3-Dihydro-5,7-dihydroxy-2-(4-methoxyphenyl)-4H-1-benzopyran-4-one, 9Cl. **Isosakuranetin**. Kikokunetin. Citrifoliol. Ponciretin



CAS Registry Number: 480-43-3

Molecular Formula: C₁₆H₁₄O₅

Molecular Weight: 286.284

Accurate Mass: 286.084125

Percentage Composition: C 67.13%; H 4.93%; O 27.94%

Biological Use/Importance: Shows antifungal and cytotoxic props

>>Variant: (S)-form

Molecular Formula: C₁₆H₁₄O₅

Molecular Weight: 286.284

Accurate Mass: 286.084125

Percentage Composition: C 67.13%; H 4.93%; O 27.94%

Biological Source: Widespread in the Compositae (*Artemisia*, *Baccharis*, *Tanacetum*, *Wyethia*, *Gymnopentzia*), also in *Betula*, *Notholaena* and *Prunus* spp.

Melting Point: Mp 193-194°

Optical Rotation: $[\alpha]_D^{20} -19.7$ (EtOH)

>>Derivative: 5-O-β-D-Glucopyranoside

CAS Registry Number: 70863-90-0

Molecular Formula: C₂₂H₂₄O₁₀

Molecular Weight: 448.426

Accurate Mass: 448.13695

Percentage Composition: C 58.93%; H 5.39%; O 35.68%

Biological Source: Isol. from *Hoppea dichotoma*

Physical Description: Needles (EtOH)

Melting Point: Mp 118-120°

>>Derivative: 7-O-β-D-Glucopyranoside

Synonym(s): Isosakuranin

CAS Registry Number: 491-69-0

Molecular Formula: C₂₂H₂₄O₁₀

Molecular Weight: 448.426

Accurate Mass: 448.13695

Percentage Composition: C 58.93%; H 5.39%; O 35.68%

Biological Source: Isol. from *Prunus* spp. and others

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 214° (184-187°)

Optical Rotation: $[\alpha]_D^{24} -73.4$ (Py)

>>Derivative: 7-O-β-D-Xylopyranoside

CAS Registry Number: 83728-89-6

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: Yellow needles (MeOH)

Melting Point: Mp 140-142 dec.°