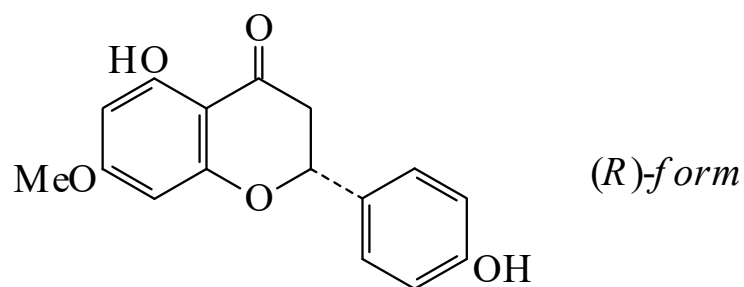




>>Entry Name: 4',5-Dihydroxy-7-methoxyflavanone

Synonym(s): 2,3-Dihydro-5-hydroxy-2-(4-hydroxyphenyl)-7-methoxy-4*H*-1-benzopyran-4-one, 9Cl. **Sakuranetin**. Naringenin 7-methyl ether



CAS Registry Number: 520-29-6

Related CAS Registry Numbers(s): 118244-13-6

Molecular Formula: C₁₆H₁₄O₅

Molecular Weight: 286.284

Accurate Mass: 286.084125

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

Use/Importance: Antiseptic

Calculated Log P Data: Log P 2.31 (uncertain value) (calc)

UV: [neutral] λ_{max} 230 (ε 20000); 300 (ε 11000) (MeOH) (Berdy)

>>Variant: (*R*)-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: From *Prunus yedoensis*

Melting Point: Mp 131-133°

Optical Rotation: [α]_D¹⁶ +8 (c, 7.92 in Me₂CO)

>>Variant: (*S*)-form

CAS Registry Number: 2957-21-3

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 (*Baccharis*, *Eupatorium*, *Gymnopentzia*, *Polymnia*), also in *Iris*, *Betula*, *Notholaena*, *Prunus*, *Eucalyptus*, *Juglans*, *Poecilanthus* and other genera

Use/Importance: Phytoalexin

Melting Point: Mp 152-154°

>>Derivative: 5-*O*-β-D-Glucopyranoside

Synonym(s): Sakuranin

CAS Registry Number: 529-39-5

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.

Physical Description: Needles

Melting Point: Mp 212-214°

Optical Rotation: [α]_D²⁸ -123.2 (Me₂CO)