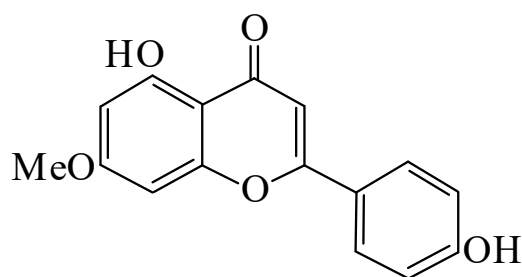




>>Entry Name: 4',5-Dihydroxy-7-methoxyflavone

Synonym(s): 5-Hydroxy-2-(4-hydroxyphenyl)-7-methoxy-4*H*-1-benzopyran-4-one. **Genkwanin**. Apigenin 7-methyl ether. Puddumetin



CAS Registry Number: 437-64-9

Molecular Formula: C₁₆H₁₂O₅

Molecular Weight: 284.268

Accurate Mass: 284.068475

Percentage Composition: C 67.60%; H 4.25%; O 28.14%

Biological Source: Widespread flavonoid isol. from the Asteraceae, Cistaceae, Eupomataceae, Labiatae, Pteridaceae and Saxifragaceae

Use/Importance: Used as EtOH soln. for analytical reactions with some metals

Physical Description: Yellow needles (MeOH)

Melting Point: Mp 286°

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O

UV: [neutral] λ_{max} 266 (); 333 () (MeOH) (Berdy) [base] λ_{max} 266 (); 295 (); 382 () (MeOH-NAOH) (Berdy)

>>Derivative: 4'-O-β-D-Glucopyranoside

Synonym(s): Phegopolin

CAS Registry Number: 20486-36-6

Molecular Formula: C₂₂H₂₂O₁₀

Molecular Weight: 446.41

Accurate Mass: 446.1213

Percentage Composition: C 59.19%; H 4.97%; O 35.84%

Biological Source: Constit. of leaves of *Phegopteris polypodioides*

Physical Description: Yellow needles

Melting Point: Mp 235-236° (203-204°)

Optical Rotation: [α]_D²¹ -35.8 (c, 0.5 in Py)

>>Derivative: 5-O-β-D-Glucopyranoside

Synonym(s): Glucogenkwanin

CAS Registry Number: 552-52-3

Molecular Formula: C₂₂H₂₂O₁₀

Molecular Weight: 446.41

Accurate Mass: 446.1213

Percentage Composition: C 59.19%; H 4.97%; O 35.84%

Biological Source: Occurs in *Prunus verecunda* and *Prunus speciosa*

Physical Description: Yellow needles + 2H₂O (EtOH)

Melting Point: Mp 273-274°

>>Derivative: 5-O-(6-O-Malonyl-β-D-glucopyranoside)

CAS Registry Number: 130733-29-8

Molecular Formula: C₂₅H₂₄O₁₃

Molecular Weight: 532.457

Accurate Mass: 532.121695

Percentage Composition: C 56.39%; H 4.54%; O 39.06%

Biological Source: Isol. from *Equisetum arvense*