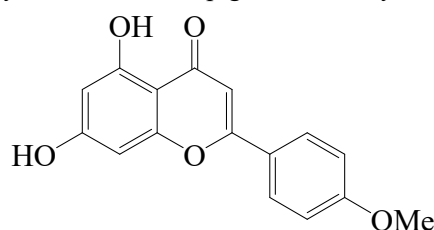




>>Entry Name: 5,7-Dihydroxy-4'-methoxyflavone, 8Cl

Synonym(s): 5,7-Dihydroxy-2-(4-methoxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl. Apigenin 4'-methyl ether. **Acacetin**. Linarigenin. Buddleoflavinol



CAS Registry Number: 480-44-4

Related CAS Registry Numbers(s): 80443-15-8

Molecular Formula: C₁₆H₁₂O₅

Molecular Weight: 284.268

Accurate Mass: 284.068475

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

Biological Source: Constit. of *Robinia pseudacacia* (common acacia) and *Ammi visnaga*. Also isol. from many other plants incl. Asteraceae, Cistaceae, Clusiaceae, Fabaceae, Liliaceae etc.

Use/Importance: Used for photometric detn. of Zr

Biological Use/Importance: Antiinflammatory, capillary protective and spasmolytic agent

Physical Description: Pale yellow needles (EtOH)

Melting Point: Mp 263°

Solubility: BERDY SOL: Sol. bases, EtOH; poorly sol. Et₂O

Calculated Log P Data: Log P 1.56 (calc)

Hazard & Toxicity: LD₅₀ (mus, ivn) 993 mg/kg. Exp. reprod. effects

Fluka: 17

Rare Chemicals Library: S44489-8

Sigma: A8206

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

Synonym(s): Acacetin 7-rhamnoside

CAS Registry Number: 77208-28-7

Molecular Formula: C₂₂H₂₂O₉

Molecular Weight: 430.41

Accurate Mass: 430.126385

Percentage Composition: C 61.39%; H 5.15%; O 33.46%

Biological Source: Constit. of *Peganum harmala*

UV: [neutral] λ_{max} 267 (); 325 () (MeOH)

>>Derivative: 7-*O*-β-D-Galactopyranoside

CAS Registry Number: 35013-09-3

Molecular Formula: C₂₂H₂₂O₁₀

Molecular Weight: 446.41

Accurate Mass: 446.1213

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

Biological Source: Isol. from *Chrysanthemum indicum*

Physical Description: Cryst. (MeOH/Me₂CO)

Melting Point: Mp 259 dec.°

Optical Rotation: [α]_D²⁵ -36.6 (c, 0.55 in DMF). [α]_D²⁵ -60 (MeOH)

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

CAS Registry Number: 122541-04-2

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 *Chrozophora* sp.