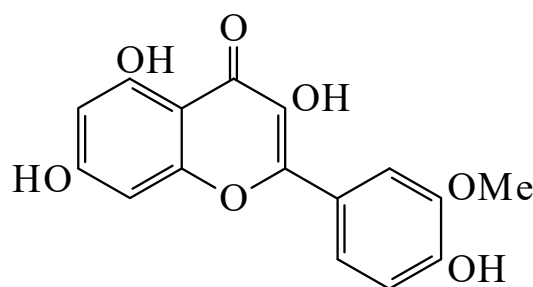




>>Entry Name: 3,4',5,7-Tetrahydroxy-3'-methoxyflavone

Synonym(s): 3,5,7-Trihydroxy-2-(4-hydroxy-3-methoxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl. 4',5,7-Trihydroxy-3'-methoxyflavonol. **Isorhamnetin**. Quercetin 3'-methyl ether



CAS Registry Number: 480-19-3

Related CAS Registry Numbers(s): 63109-33-1

Molecular Formula: C₁₆H₁₂O₇

Molecular Weight: 316.267

Accurate Mass: 316.058305

Percentage Composition: C 60.76%; H 3.82%; O 35.41%

Biological Source: Widespread in plants. First isol. from *Cheiranthus cheiri* in 1896

Physical Description: Greenish-yellow cryst. (AcOH)

Melting Point: Mp 305 dec.°

Solubility: Spar. sol. EtOH, AcOH; insol. C₆H₆, CHCl₃

>>Derivative: 3-*O*-Sulfate

Synonym(s): Persicarin

CAS Registry Number: 549-31-5

Molecular Formula: C₁₆H₁₂O₁₀S

Molecular Weight: 396.331

Accurate Mass: 396.01512

Percentage Composition: C 48.49%; H 3.05%; O 40.37%; S 8.09%

Biological Source: Isol. from *Polygonum* spp., *Senecio* spp. and other plants

Physical Description: Yellow cryst.

Melting Point: Mp 288° (280° dec.)

>>Derivative: 7-*O*-Sulfate

CAS Registry Number: 56857-60-4

Molecular Formula: C₁₆H₁₂O₁₀S

Molecular Weight: 396.331

Accurate Mass: 396.01512

Percentage Composition: C 48.49%; H 3.05%; O 40.37%; S 8.09%

Biological Source: Isol. from *Frankenia pulverulenta*

>>Derivative: 3,4'-Di-*O*-sulfate

CAS Registry Number: 110209-95-5

Molecular Formula: C₁₆H₁₂O₁₃S₂

Molecular Weight: 476.395

Accurate Mass: 475.971935

Percentage Composition: C 40.34%; H 2.54%; O 43.66%; S 13.46%

Biological Source: Isol. from *Iphiona scabra*

>>Derivative: 3,7-Di-*O*-sulfate

CAS Registry Number: 79174-97-3

Molecular Formula: C₁₆H₁₂O₁₃S₂

Molecular Weight: 476.395

Accurate Mass: 475.971935

Percentage Composition: C 40.34%; H 2.54%; O 43.66%; S 13.46%

Biological Source: Isol. from *Flaveria bidentis* (as K salt) and *Senecio* spp.

Physical Description: Cryst. (H₂O) (as K salt)