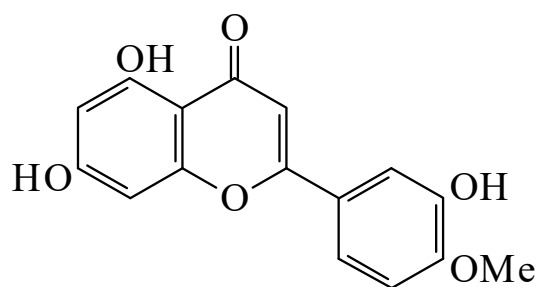




>>Entry Name: 3',5,7-Trihydroxy-4'-methoxyflavone

ENTRY UNDER REVIEW

Synonym(s): Diosmetin. Salinigrifcoflavonol. Vitamin P



CAS Registry Number: 520-34-3

Molecular Formula: C₁₆H₁₂O₆

Molecular Weight: 300.267

Accurate Mass: 300.06339

Percentage Composition: C 64.00%; H 4.03%; O 31.97%

Biological Source: Isol. from aerial parts of *Valeriana* spp., leaves of *Digitalis* spp., peel of lemon (*Citrus limon*) and others

Use/Importance: Used as 0.01M soln. in MeOH for photometric detn. of Fe(III) ($\lambda_{\max}$ 480 nm, ϵ 14000, pH 6.5)

Physical Description: Pale yellow cryst. (EtOH)

Melting Point: Mp 258-259° (250-253°). Mp 228-230°

Solubility: Sol. MeOH, EtOH

UV: [neutral] $\lambda_{\max}$ 253 (ϵ 19000); 268 (ϵ 17800); 345 (ϵ 21000) (MeOH) (Berdy)

>>Derivative: 7-Sulfate

CAS Registry Number: 60048-91-1

Molecular Formula: C₁₆H₁₂O₉S

Molecular Weight: 380.331

Accurate Mass: 380.020205

Percentage Composition: C 50.53%; H 3.18%; O 37.86%; S 8.43%

Biological Source: Isol. from *Zostera marina*

>>Derivative: 3'-Sulfate

CAS Registry Number: 59176-63-5

Molecular Formula: C₁₆H₁₂O₉S

Molecular Weight: 380.331

Accurate Mass: 380.020205

Percentage Composition: C 50.53%; H 3.18%; O 37.86%; S 8.43%

Biological Source: Isol. from *Lachenalia unifolia*

>>Derivative: 3',7-Disulfate

CAS Registry Number: 59176-64-6

Molecular Formula: C₁₆H₁₂O₁₂S₂

Molecular Weight: 460.396

Accurate Mass: 459.97702

Percentage Composition: C 41.74%; H 2.63%; O 41.70%; S 13.93%

Biological Source: Isol. from *Lachenalia unifolia*

>>Derivative: 7-O- α -D-Ribofuranoside

CAS Registry Number: 125564-70-7

Molecular Formula: C₂₁H₂₀O₁₀

Molecular Weight: 432.383

Accurate Mass: 432.10565

Percentage Composition: C 58.34%; H 4.66%; O 37.00%

Biological Source: Constit. of the stromata of *Epichloe typhina* on *Phleum pratense*