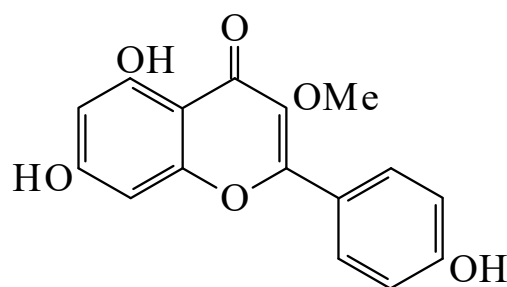




>>Entry Name: 4',5,7-Trihydroxy-3-methoxyflavone

Synonym(s): 5,7-Dihydroxy-2-(4-hydroxyphenyl)-3-methoxy-4*H*-1-benzopyran-4-one, 9Cl. Isokaempferide



CAS Registry Number: 1592-70-7

Related CAS Registry Numbers(s): 23517-23-9 28880-18-4

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 many plant spp.

Physical Description: Yellow needles (EtOH aq.)

Melting Point: Mp 299-302° (276°)

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

CAS Registry Number: 94617-15-9

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 *Carduus getulus*

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

CAS Registry Number: 13454-27-8

Molecular Formula: C₂₂H₂₂O₁₁

Molecular Weight: 462.409

Accurate Mass: 462.116215

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Biological Source: Isol. from *Haplopappus foliosus*, *Smyrniun* sp. and *Solanum* sp.

Physical Description: Cryst. + 1H₂O (MeOH aq.)

Melting Point: Mp 197-200°

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

Synonym(s): Bracteoside

Molecular Formula: C₂₂H₂₀O₁₂

Molecular Weight: 476.393

Accurate Mass: 476.09548

Percentage Composition: C 55.47%; H 4.23%; O 40.30%

Biological Source: Constit. of *Centaurea bracteata*

Physical Description: Pale yellow solid

Optical Rotation: [α]_D²⁰ -42.3 (c, 0.1 in MeOH)

UV: [neutral] λ_{max} 248 (sh) (log ε 3.65); 263 (log ε 4.24); 317 (sh) (log ε 3.22); 352 (log ε 3.74) (MeOH)

>>Derivative: 7-*O*-Rutinoside

CAS Registry Number: 18467-06-6

Molecular Formula: C₂₈H₃₂O₁₅

Molecular Weight: 608.552

Accurate Mass: 608.174125

Percentage Composition: C 55.26%; H 5.30%; O 39.44%

Biological Source: Isol. from *Centaurea* spp.

Physical Description: Cryst. (H₂O)

Melting Point: Mp 166-170°