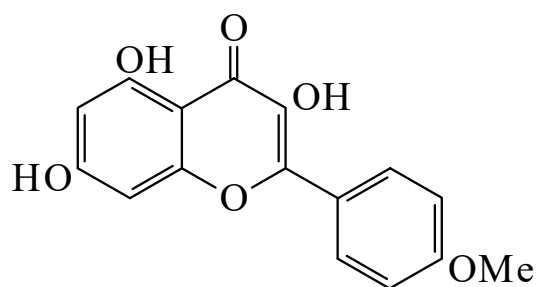




>>Entry Name: 3,5,7-Trihydroxy-4'-methoxyflavone

Synonym(s): 3,5,7-Trihydroxy-2-(4-methoxyphenyl)-4H-1-benzopyran-4-one, 9CI. 5,7-Dihydroxy-4'-methoxyflavonol. **Kaempferide**. Kampheride. Campheride. Kaemferide



CAS Registry Number: 491-54-3

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 many plant spp. First isol. in 1839 from roots of *Alpinia officinarum*

Physical Description: Yellow needles + H₂O (EtOH aq.)

Melting Point: Mp 227-229°

Other Data: Dehydrates at 130-140°

Fluka: 60000

>>Derivative: 3-O-Sulfate

CAS Registry Number: 130827-47-3

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 *Tamarix* spp.

>>Derivative: 3-O- α -L-Arabinopyranoside

Synonym(s): Kaempferide 3-arabinopyranoside

CAS Registry Number: 123442-27-3

Molecular Formula: C₂₁H₂₀O₁₀

Molecular Weight: 432.383

Accurate Mass: 432.10565

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

>>Derivative: 3-O- β -D-Glucopyranoside

CAS Registry Number: 70324-47-9

Molecular Formula: C₂₂H₂₂O₁₁

Molecular Weight: 462.409

Accurate Mass: 462.116215

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

Biological Source: Constit. of *Astragalus* sp., *Dillenia* sp. *Moltkiopsis* sp. and *Solanum* sp.

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

Synonym(s): Mumenin

CAS Registry Number: 16290-08-7

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 wood of *Prunus mume*, also from *Pterospermum acerifolium* and *Semecarpus vitiensis*

Physical Description: Yellow prisms (Py aq.)

Melting Point: Mp 312° (278°)