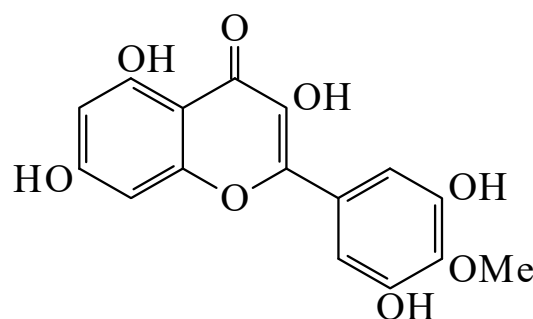




>>Entry Name: 3,3',5,5',7-Pentahydroxy-4'-methoxyflavone

Synonym(s): 2-(3,5-Dihydroxy-4-methoxyphenyl)-3,5,7-trihydroxy-4*H*-1-benzopyran-4-one, 9Cl. 3',5,5',7-Tetrahydroxy-4'-methoxyflavonol. **Mearnsetin**. Myricetin 4'-methyl ether



CAS Registry Number: 16805-10-0

Molecular Formula: C₁₆H₁₂O₈

Molecular Weight: 332.266

Accurate Mass: 332.05322

Percentage Composition: C 57.84%; H 3.64%; O 38.52%

Biological Source: Isol. from *Rhamnus pallasii*

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 208-210°

>>Derivative: 3-*O*-β-D-Galactopyranoside

Molecular Formula: C₂₂H₂₂O₁₃

Molecular Weight: 494.408

Accurate Mass: 494.106045

Percentage Composition: C 53.45%; H 4.48%; O 42.07%

Biological Source: Constit. of *Licania heteromorpha* var. *heteromorpha*

Optical Rotation: [α]_D²⁵ -25 (c, 0.1 in MeOH)

>>Derivative: 3-*O*-α-L-Rhamnopyranoside

Synonym(s): Mearnsitrin

CAS Registry Number: 30484-88-9

Molecular Formula: C₂₂H₂₂O₁₂

Molecular Weight: 478.409

Accurate Mass: 478.11113

Percentage Composition: C 55.23%; H 4.63%; O 40.13%

Biological Source: Isol. from *Acacia mearnsii*, *Flemingia stricta*, *Landolphia kirkii* and other plant spp.

Physical Description: Amorph.

>>Derivative: 3-*O*-(4-*O*-Malonyl-α-L-rhamnopyranoside)

Synonym(s): 4''-*O*-Malonylmearnsitrin

Molecular Formula: C₂₅H₂₄O₁₅

Molecular Weight: 564.456

Accurate Mass: 564.111525

Percentage Composition: C 53.20%; H 4.29%; O 42.52%

Biological Source: Constit. of *Ribes alpinum*

>>Derivative: 3-*O*-[β-D-Galactopyranosyl-(1→4)-β-D-galactopyranoside]

CAS Registry Number: 73815-16-4

Molecular Formula: C₂₈H₃₂O₁₈

Molecular Weight: 656.55

Accurate Mass: 656.15887

Percentage Composition: C 51.22%; H 4.91%; O 43.86%

Biological Source: Isol. from *Vitex negundo*

Melting Point: Mp 260 dec.°