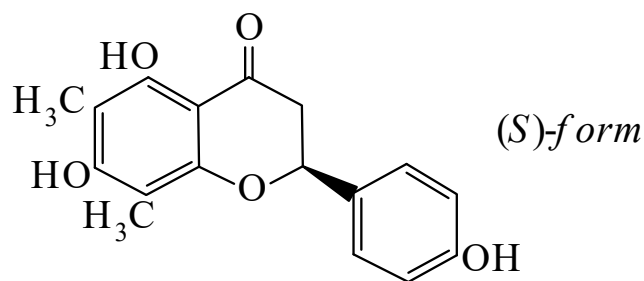




>>Entry Name: 4',5,7-Trihydroxy-6,8-dimethylflavanone

Synonym(s): 2,3-Dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-6,8-dimethyl-4*H*-1-benzopyran-4-one, 9Cl. **Farrerol**. 4'-Demethylmatteucinol. Cyrtopterinetin



Related CAS Registry Numbers(s): 95403-16-0

Molecular Formula: C₁₇H₁₆O₅

Molecular Weight: 300.31

Accurate Mass: 300.099775

Percentage Composition: C 67.99%; H 5.37%; O 26.64%

Use/Importance: Shows antitussive expectorant, cholaretic and antihyperlipidaemic props.

Calculated Log P Data: Log P 2.8 (uncertain value) (calc)

UV: [neutral] λ_{max} 254 (ε 1900); 298 (ε 18200) (EtOH) (Berdy)

>>Variant: (*S*)-form

CAS Registry Number: 24211-30-1

Molecular Formula: C₁₇H₁₆O₅

Molecular Weight: 300.31

Accurate Mass: 300.099775

Percentage Composition: C 67.99%; H 5.37%; O 26.64%

Biological Source: Isol. from the leaves of *Rhododendron farrerae* and other *Rhododendron* spp., from *Cyrtomium* and *Angophora* spp.

Physical Description: Buff-coloured needles (dioxan aq.)

Melting Point: Mp 223-224°

Optical Rotation: [α]_D −23 (c, 0.1 in MeOH) (not opt. pure)

Other Data: Pharmacol. active isomer

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

Molecular Formula: C₂₃H₂₆O₁₀

Molecular Weight: 462.452

Accurate Mass: 462.1526

Percentage Composition: C 59.74%; H 5.67%; O 34.60%

Biological Source: Believed to occur in the Athyriaceae and Dryopteridaceae. Present in *Cyrtomium* spp.

Optical Rotation: [α]_D −23 (c, 0.1 in MeOH)

>>Derivative: *O*-Glucoside

Synonym(s): Cyrtopterin

Molecular Formula: C₂₃H₂₆O₁₀

Molecular Weight: 462.452

Accurate Mass: 462.1526

Percentage Composition: C 59.74%; H 5.67%; O 34.60%

Biological Source: Isol. from *Cyrtomium* sp.

Physical Description: Needles

Melting Point: Mp 232-234°

Other Data: Full struct. not determined

>>Derivative: 5,7-Di-*O*-β-D-Glucopyranoside

Molecular Formula: C₂₉H₃₆O₁₅

Molecular Weight: 624.594

Accurate Mass: 624.205425

Percentage Composition: C 55.77%; H 5.81%; O 38.42%

Biological Source: Occurs in *Rhododendron* spp.