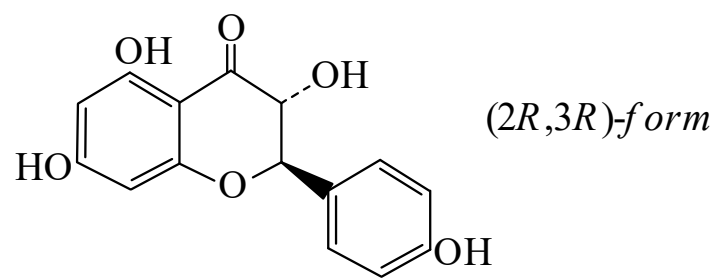




>>Entry Name: 3,4',5,7-Tetrahydroxyflavanone

ENTRY UNDER REVIEW

Synonym(s): 2,3-Dihydro-3,5,7-trihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one, 9Cl. 4',5,7-Trihydroxydihydroflavonol. 3-Hydroxynaringenin. Dihydrokaempferol



CAS Registry Number: 5150-32-3

Related CAS Registry Numbers(s): 54081-49-1 54081-50-4 70594-44-4 137225-59-3 143114-80-1

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

>>Variant: (2R,3R)-form

Synonym(s): (+)-trans-form. Aromadendrin[‡]. Aromadendrol. Katuranin

CAS Registry Number: 480-20-6

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

Biological Source: Isol. from *Abies*, *Acacia*, *Camellia*, *Coleus*, *Eucalyptus*, *Podocarpus*, *Rhamnus*, *Salix*, *Cavendishia*, *Cudrania*, *Dillenia*, *Equisetum*, *Eucryphia*, *Matthiola*, *Morus*, *Othonna*, *Persica*, *Picea*, *Prunus*, *Wormia*, *Aflatunia*, *Afzelia*, *Cercidiphyllum*, *Citrus*, *Chlorophora*, *Nothofagus*, *Platanus*, *Prunus*, *Rhododendron* and *Tilia* spp.

Physical Description: Cryst.

Melting Point: Mp 237-241 dec.°. Mp 247-249°

Optical Rotation: [α]_D²⁵ +26.5 (c, 2 in MeOH). [α]_D²⁵ +45 (c, 4 in 50% Me₂CO aq.)

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

Synonym(s): Aromadendrin 3-arabinoside

CAS Registry Number: 158110-38-4

Molecular Formula: C₂₀H₂₀O₁₀

Molecular Weight: 420.372

Accurate Mass: 420.10565

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

Biological Source: Constit. of *Euclea divinorum*

>>Derivative: 4'-O-D-Xyloside

Synonym(s): Dihydrokaempferol 4'-xyloside

CAS Registry Number: 72539-33-4

Molecular Formula: C₂₀H₂₀O₁₀

Molecular Weight: 420.372

Accurate Mass: 420.10565

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

Biological Source: Isol. from *Cleome viscosa*

Physical Description: Golden yellow needles (Me₂CO/petrol)

Melting Point: Mp 130-132°

>>Derivative: O-Xyloside

Molecular Formula: C₂₀H₂₀O₁₀

Molecular Weight: 420.372

Accurate Mass: 420.10565

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

Biological Source: Isol. from *Chamaecyparis* sp.

Physical Description: No phys. props. reported

Other Data: Posn. of glycosidation unknown