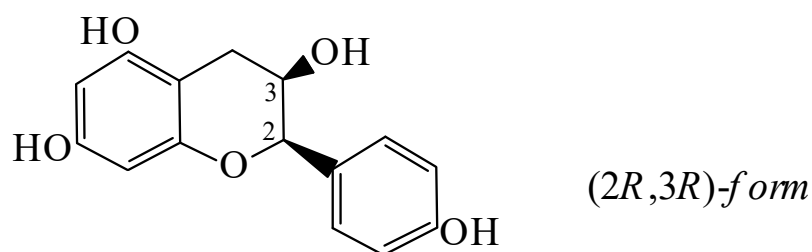




>>Entry Name: 3,4',5,7-Tetrahydroxyflavan

Synonym(s): 3,4-Dihydro-2-(4-hydroxyphenyl)-2H-1-benzopyran-3,5,7-triol, 9Cl. 4',5,7-Trihydroxyflavanol



Molecular Formula: C₁₅H₁₄O₅

Molecular Weight: 274.273

Accurate Mass: 274.084125

Percentage Composition: C 65.69%; H 5.14%; O 29.17%

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

Synonym(s): (–)-Epiafzelechin

CAS Registry Number: 24808-04-6

Molecular Formula: C₁₅H₁₄O₅

Molecular Weight: 274.273

Accurate Mass: 274.084125

Percentage Composition: C 65.69%; H 5.14%; O 29.17%

Biological Source: Constit. of afzelia hardwood, *Larix sibirica*, *Actinidia chinensis*, *Juniperus communis* and *Cassia javanica*

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 240-243 dec.° (312°)

Optical Rotation: [α]_D¹⁹ –58.9 (c, 3 in EtOH). [α]_D –4 (c, 1 in Me₂CO)

>>Derivative: Tetra-Ac

Physical Description: Prisms (AcOH aq.)

Melting Point: Mp 126-127°

>>Derivative: 5-O-β-D-Glucopyranoside

CAS Registry Number: 94285-13-9

Molecular Formula: C₂₁H₂₄O₁₀

Molecular Weight: 436.415

Accurate Mass: 436.13695

Percentage Composition: C 57.80%; H 5.54%; O 36.66%

Biological Source: Isol. from *Crateva religiosa*

Physical Description: Buff cryst. (EtOAc)

Melting Point: Mp 190°

Optical Rotation: [α]_D –38.3 (MeOH)

>>Derivative: 3-O-β-D-Glucopyranoside

CAS Registry Number: 114637-87-5

Molecular Formula: C₂₁H₂₄O₁₀

Molecular Weight: 436.415

Accurate Mass: 436.13695

Percentage Composition: C 57.80%; H 5.54%; O 36.66%

Biological Source: Constit. of the leaves of *Cassia fistula*

Physical Description: Needles

Melting Point: Mp 234°

Optical Rotation: [α]_D¹⁸ –56.3 (c, 1.1 in MeOH)