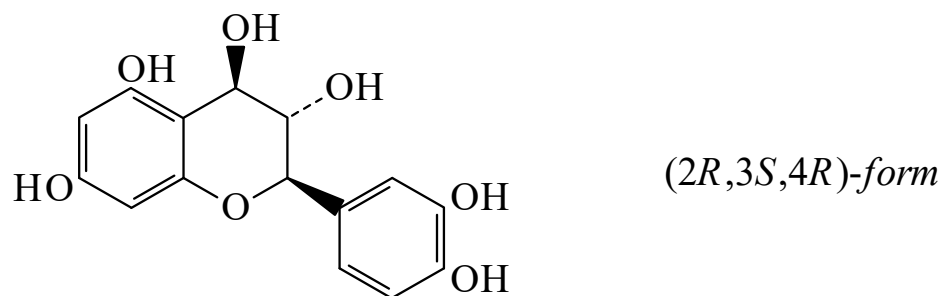




>>Entry Name: 3,3',4,4',5,7-Hexahydroxyflavan

Synonym(s): 2-(3,4-Dihydroxyphenyl)-3,4-dihydro-2*H*-benzopyran-3,4,5,7-tetrol, 9Cl. **Leucocyanidin.** Leucanthocyanidol. Leucocyanidol. Leucocianidol, INN. Pygnoforton. Pyknogenol. Procyanidol



CAS Registry Number: 480-17-1

Related CAS Registry Numbers(s): 15963-96-9 17912-82-2 20408-92-8 29913-80-2 29913-81-3 98856-47-4 104371-01-9

Molecular Formula: C₁₅H₁₄O₇

Molecular Weight: 306.271

Accurate Mass: 306.073955

Percentage Composition: C 58.83%; H 4.61%; O 36.57%

Biological Source: Occurs in many plants, e.g. detected in a wide range of conifer woods

Use/Importance: Important in chem. and biochemistry of the condensed tannin procyanidins; antihemorrhagic, vitamin P factor

UV: [neutral] λ_{max} 285 () (MeOH) (Berdy)

Other Data: Stereochem. of naturally occurring isomers has not been fully worked out

>>Variant: (2*R*,3*S*,4*R*)-form

CAS Registry Number: 69256-15-1

Molecular Formula: C₁₅H₁₄O₇

Molecular Weight: 306.271

Accurate Mass: 306.073955

Percentage Composition: C 58.83%; H 4.61%; O 36.57%

Physical Description: Cryst. +2H₂O(H₂O)

Optical Rotation: [α]_D²⁵ +20.6 (c, 0.24 in MeOH aq.)

Other Data: Discolours at 125°; dec. to maroon solid by 170°

>>Variant: (2*R*,3*S*,4*S*)-form

CAS Registry Number: 93527-39-0

Molecular Formula: C₁₅H₁₄O₇

Molecular Weight: 306.271

Accurate Mass: 306.073955

Percentage Composition: C 58.83%; H 4.61%; O 36.57%

Source/Synthesis: Enzymic reduction prod. of 3,3',4',5,7-Pentahydroxyflavanone [CNL06-P](#)

Optical Rotation: [α]_D +34 (CHCl₃)

>>Variant: (2ξ,3ξ,4ξ)-form

Molecular Formula: C₁₅H₁₄O₇

Molecular Weight: 306.271

Accurate Mass: 306.073955

Percentage Composition: C 58.83%; H 4.61%; O 36.57%

>>Derivative: Hexa-Ac

CAS Registry Number: 15885-46-8

Molecular Formula: C₂₇H₂₆O₁₃

Molecular Weight: 558.495

Percentage Composition: C 58.07%; H 4.69%; O 37.24%

Melting Point: Mp 142-144°