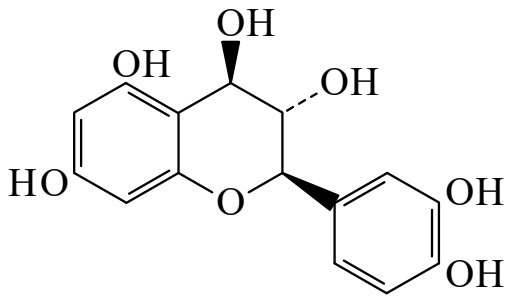
>>**Entry Name: 3,3',4,4',5,7-Hexahydroxyflavan**
Synonym(s): 2-(3,4-Dihydroxyphenyl)-3,4-dihydro-2*H*-benzopyran-3,4,5,7-tetrol, 9CI. **Leucocyanidin.** Leucanthocyanidol. Leucocyanidol. Leucocianidol, INN. Pygnoforton. Pyknogenol. Procyanidol



(2*R*,3*S*,4*R*)-*form*

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: $C_{15}H_{14}O_7$
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; antihaemorrhagic, 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: $C_{15}H_{14}O_7$
Molecular Weight: 306.271
Accurate Mass: 306.073955
Percentage Composition: C 58.83%; H 4.61%; O 36.57%
Physical Description: Cryst. $+2H_2O(H_2O)$
Optical Rotation: $[\alpha]_D^{25}$+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: $C_{15}H_{14}O_7$
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: $[\alpha]_D$ +34 ($CHCl_3$)

>>**Variant:** (2ξ,3ξ,4ξ)-form

Molecular Formula: $C_{15}H_{14}O_7$
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: $C_{27}H_{26}O_{13}$
Molecular Weight: 558.495
Percentage Composition: C 58.07%; H 4.69%; O 37.24%
Melting Point: Mp 142-144°

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