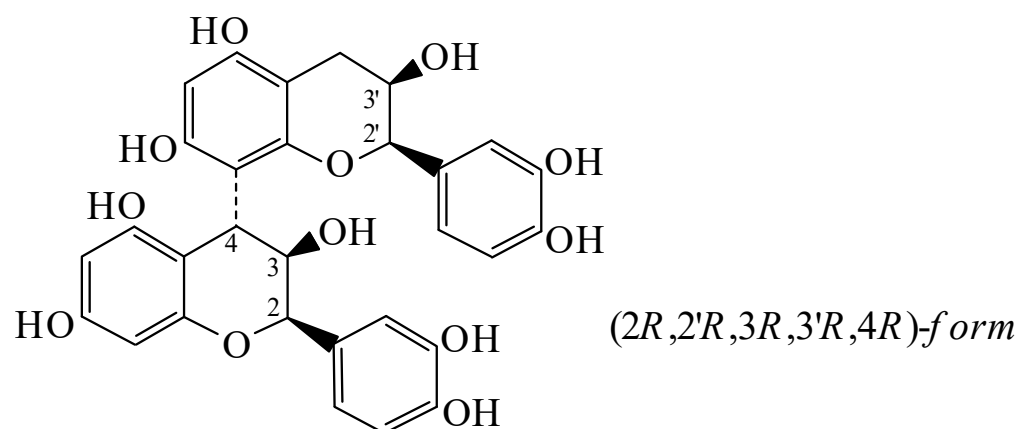




>>Entry Name: 3,3',4',5,7-Pentahydroxyflavan(4→8)-3,3',4',5,7-pentahydroxyflavan

Synonym(s): Procyanidin C. Proanthocyanidin C. Leucocyanidin 1



CAS Registry Number: 35356-33-3

Related CAS Registry Numbers(s): 15514-06-4 20555-01-5 35356-34-4 61505-38-2 86631-41-6 89064-33-5

Molecular Formula: C₃₀H₂₆O₁₂

Molecular Weight: 578.528

Accurate Mass: 578.14243

Percentage Composition: C 62.28%; H 4.53%; O 33.19%

been used for this group of compounds having unspecified stereochem., but the individual stereoisomers are called Procyanidins B. *Procyanidin D* has also been named as a stereoisomer

Biological Source: Widespread in the plant kingdom

Solubility: BERDY SOL: Poorly sol. hexane

>>Derivative: 3-(3,4,5-Trihydroxybenzoyl)

Synonym(s): Proanthocyanidin B₆

CAS Registry Number: 82916-01-6

Molecular Formula: C₃₇H₃₀O₁₆

Molecular Weight: 730.634

Accurate Mass: 730.15339

Percentage Composition: C 60.82%; H 4.14%; O 35.04%

Biological Source: Isol. from *Hibiscus cannabinus*

Other Data: Contains isomers with (2R,3R) and (2',3'R) configs. with unknown config. of flavonoid linkage

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

Synonym(s): Procyanidin B₂. Epicatechin(4β→8)epicatechin. Proanthocyanidin B₂

CAS Registry Number: 29106-49-8

Molecular Formula: C₃₀H₂₆O₁₂

Molecular Weight: 578.528

Accurate Mass: 578.14243

Percentage Composition: C 62.28%; H 4.53%; O 33.19%

Biological Source: Occurs in *Crataegus*, *Cotoneaster*, *Malus* and *Aesculus* spp. Present in red wine

Optical Rotation: [α]_D +26 (H₂O)

>>Derivative: 3'-(3,4,5-Trihydroxybenzoyl)

Synonym(s): 3'-Galloylprocyanidin B₂

Molecular Formula: C₃₇H₃₀O₁₆

Molecular Weight: 730.634

Accurate Mass: 730.15339

Percentage Composition: C 60.82%; H 4.14%; O 35.04%

Biological Source: Isol. from *Thea sinensis* and *Vitis* sp.

Optical Rotation: [α]_D -45.8 (c, 0.72 in Me₂CO)