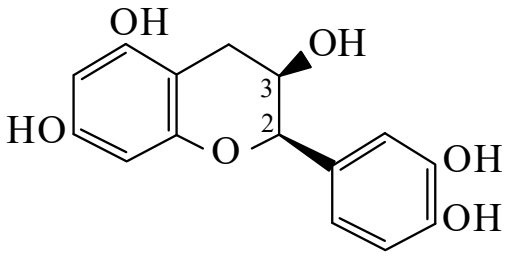
>>**Entry Name: 3,3',4',5,7-Pentahydroxyflavan**
ENTRY UNDER REVIEW
Synonym(s): 2-(3,4-Dihydroxyphenyl)-3,4-dihydro-2*H*-1-benzopyran-3,5,7-triol, 9Cl. 3',4',5,7-Tetrahydroxyflavanol



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

CAS Registry Number: 13392-26-2
Related CAS Registry Numbers(s): 72690-97-2 88191-48-4 88191-49-5 90276-13-4 99367-40-5

Molecular Formula: $C_{15}H_{14}O_6$
Molecular Weight: 290.272
Accurate Mass: 290.07904
Percentage Composition: C 62.07%; H 4.86%; O 33.07%

>>**Variant:** (2*R*,3*R*)-form
Synonym(s): (–)-*cis*-form. **Epicatechin.** Epicatechol. Teacatechin I. Acacatechin. Kakaol. Colatein

CAS Registry Number: 490-46-0
Extra CAS Registry Numbers(s): 321-01-7

Molecular Formula: $C_{15}H_{14}O_6$
Molecular Weight: 290.272
Accurate Mass: 290.07904
Percentage Composition: C 62.07%; H 4.86%; O 33.07%
Biological Source: Widespread
Biological Use/Importance: Antiinflammatory agent. Shows hepatotropic activity
Physical Description: Cryst.
Melting Point: Mp 242°
Optical Rotation: $[\alpha]_D$ –68 (EtOH)
Calculated Log P Data: Log P 0.38 (uncertain value) (calc)
UV: [neutral] λ_{max} 281 () (MeOH) (Berdy)

Aldrich: 85523-5
Fluka: 45300
Sigma: E1753

>>**Derivative:** 5-*O*-β-D-Xylopyranoside
Synonym(s): Epicatechin 5-xyloside

Molecular Formula: $C_{20}H_{22}O_{10}$
Molecular Weight: 422.388
Accurate Mass: 422.1213
Percentage Composition: C 56.87%; H 5.25%; O 37.88%
Biological Source: Constit. of *Brosimopsis acutifolium*
Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D$ –55 (c, 0.3 in MeOH)

>>**Derivative:** 3-*O*-β-D-Allopyranoside
Synonym(s): Epicatechin 3-alloside

CAS Registry Number: 98819-14-8

Molecular Formula: $C_{21}H_{24}O_{11}$
Molecular Weight: 452.414
Accurate Mass: 452.131865
Percentage Composition: C 55.75%; H 5.35%; O 38.90%
Biological Source: Isol. from *Davallia divaricata*
Optical Rotation: $[\alpha]_D$ –30 (MeOH)