



Synonym(s): 3,4'-Dihydroxy-3',5,7-trimethoxyflavan

CAS Registry Number: 97914-19-7

Molecular Formula: C₁₈H₂₀O₆

Molecular Weight: 332.352

Accurate Mass: 332.12599

Percentage Composition: C 65.05%; H 6.07%; O 28.88%

Biological Source: Constit. of *Camellia cassia*, *Camellia obtusifolium* and *Lindera umbellata* var. *membranacea*

Physical Description: Needles (C₆H₆)

Melting Point: Mp 139°

Optical Rotation: [α]_D²⁸ -61.2 (c, 1.22 in Me₂CO)

UV: [neutral] $\lambda_{\max}$ 278 (ϵ 4400) (MeOH) (Berdy)

>> **Derivative:** Penta-Me ether

Molecular Formula: C₂₀H₂₄O₆

Molecular Weight: 360.406

Accurate Mass: 360.15729

Percentage Composition: C 66.65%; H 6.71%; O 26.64%

Physical Description: Cryst.

Melting Point: Mp 93-94°

Optical Rotation: [α]_D -94

>> **Derivative:** 3',4'-Methylene, 5,7-di-Me ether

Synonym(s): 3-Hydroxy-5,7-dimethoxy-3',4'-methylenedioxyflavan. 5,7-Dimethoxy-3',4'-methylenedioxyflavanol

Molecular Formula: C₁₈H₁₈O₆

Molecular Weight: 330.337

Accurate Mass: 330.11034

Percentage Composition: C 65.45%; H 5.49%; O 29.06%

Biological Source: Isol. from *Camellia camphora*

Physical Description: Needles

Melting Point: Mp 158-159°

Optical Rotation: [α]_D²⁴ -33 (c, 0.21 in CHCl₃)

>> **Derivative:** 6-Chloro

Synonym(s): 6-Chloro-3,3',4',5,7-pentahydroxyflavan. **6-Chloroepicatechin**

Molecular Formula: C₁₅H₁₃ClO₆

Molecular Weight: 324.717

Accurate Mass: 324.040067

Percentage Composition: C 55.48%; H 4.04%; Cl 10.92%; O 29.56%

Biological Source: Constit. of *Geranium pratense*

Optical Rotation: [α]_D²⁵ -84 (c, 0.18 in MeOH)

UV: [neutral] $\lambda_{\max}$ 213 (); 236 (sh) (); 281 () (MeOH)

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

Synonym(s): (+)-*trans*-form. **Catechin**‡. **Catechol**‡. Cianidanol, INN, JAN. Dexcyanidanol. Cianidol. Catergen. Drenoliver. Biocatechin. Tanningenic acid. **Cyanidol**‡. Gambircatechin. Catechuic acid