



Percentage Composition: C 64.14%; H 5.70%; O 30.16%

Physical Description: Needles (MeOH aq.)

Melting Point: Mp 218-219°

Optical Rotation: $[\alpha]_D^{24} -2$ (c, 1 in Me₂CO)

>>**Derivative:** 3',5,7-Tri-Me ether

Synonym(s): 3',5,7-Tri-*O*-methylcatechin

CAS Registry Number: 105330-62-9

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 *Viguiera quinquerradiata*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 158-159°

Optical Rotation: $[\alpha]_D^{25} -12.8$ (c, 0.18 in MeOH)

>>**Derivative:** 4',5,7-Tri-Me ether

Synonym(s): 3,3'-Dihydroxy-4',5,7-trimethoxyflavan. 4',5,7-Tri-*O*-methylcatechin

CAS Registry Number: 105330-59-4

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 *Cinnamomum cassia*

Physical Description: Needles (hexane/EtOAc)

Melting Point: Mp 125°

Optical Rotation: $[\alpha]_D -8.2$ (c, 1.03 in Me₂CO)

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

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

CAS Registry Number: 51154-08-6

Molecular Formula: C₂₀H₂₄O₆

Molecular Weight: 360.406

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

Physical Description: Cryst. (EtOH)

Melting Point: Mp 95°

Optical Rotation: $[\alpha]_D +8.3$

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

Synonym(s): (–)-*trans*-form. *ent*-Catechin

CAS Registry Number: 18829-70-4

Molecular Formula: C₁₅H₁₄O₆

Molecular Weight: 290.272

Accurate Mass: 290.07904

Percentage Composition: C 62.07%; H 4.86%; O 33.07%

Biological Source: Isol. in small amt. from *Acacia catechu*, prob. as artifact of epimerisation

Physical Description: Needles (H₂O)

Melting Point: Mp 175-176°

Optical Rotation: $[\alpha]_D^{20} -16$ (c, 2 in Me₂CO aq.)

Sigma: C0567