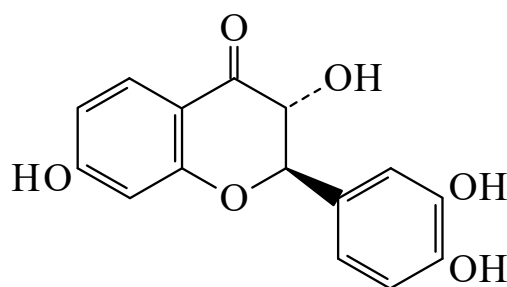




>>Entry Name: 3,3',4',7-Tetrahydroxyflavanone

Synonym(s): 2-(3,4-Dihydroxyphenyl)-2,3-dihydro-3,7-dihydroxy-4*H*-1-benzopyran-4-one, 9Cl. 3',4',7-Trihydroxydihydroflavonol. **Fustin**. Dihydrofisetin



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

CAS Registry Number: 101849-13-2

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

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

Synonym(s): (+)-*trans*-form

CAS Registry Number: 20725-03-5

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

Biological Source: Present in black-wattle (*Acacia mollissima*) heartwood and also in *Acacia peuce* heartwood. Also in *Umtiza listeriana*, *Rhus* spp., *Amphipterygium adstringens*, *Acacia*, *Gleditsia*, *Schinopsis*, *Mimosa*, *Platanus* and *Tilia* spp.

Physical Description: Needles (H₂O)

Melting Point: Mp 228-229°

Optical Rotation: $[\alpha]_D^{23} +28.3$ (c, 0.9 in 50% Me₂CO aq.)

>>Derivative: 3-Ac

Synonym(s): 3-*O*-Acetylfustin

CAS Registry Number: 135607-79-3

Molecular Formula: C₁₇H₁₄O₇

Molecular Weight: 330.293

Accurate Mass: 330.073955

Percentage Composition: C 61.82%; H 4.27%; O 33.91%

Biological Source: Constit. of *Inula viscosa*

>>Derivative: Tetra-Ac

Physical Description: Cryst. (EtOH)

Melting Point: Mp 116-119°

Optical Rotation: $[\alpha]_D^{25} +24.4$ (c, 0.8 in C₂Cl₄)

>>Derivative: 3-*O*-β-D-Glucopyranoside

CAS Registry Number: 19209-93-9

Molecular Formula: C₂₁H₂₂O₁₁

Molecular Weight: 450.398

Accurate Mass: 450.116215

Percentage Composition: C 56.00%; H 4.92%; O 39.08%

Biological Source: Constit. of the leaves and stems of *Baptisia lecontei*

Physical Description: Glass