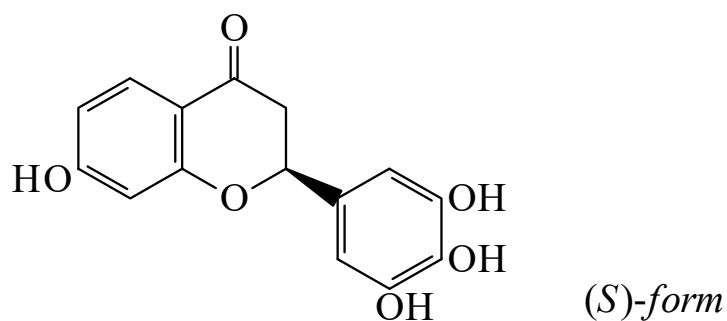




>>Entry Name: 3',4',5',7-Tetrahydroxyflavanone

Synonym(s): 2,3-Dihydro-7-hydroxy-2-(3,4,5-trihydroxyphenyl)-4H-1-benzopyran-4-one, 9Cl. **Robtin**



CAS Registry Number: 4382-34-7

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

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

>>Variant: (S)-form

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

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

Biological Source: Constit. of the heartwood of the locust tree *Robinia pseudacacia*. Also in traces from *Acacia mearnsii*

Physical Description: Rhombs (EtOH aq.)

Melting Point: Mp 276° (after dehydration)

Optical Rotation: $[\alpha]_{\text{D}}^{25} -56.8$ (c, 0.9 in MeOH)

>>Derivative: Tetra-Ac

Physical Description: Needles (EtOH)

Melting Point: Mp 180-182°

Optical Rotation: $[\alpha]_{\text{D}} +0.6$ (c, 0.8 in tetrachloroethane)

>>Variant: (±)-form

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

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

Physical Description: Cryst.

Melting Point: Mp 276 dec.° (sintering at 160-165°)

>>Derivative: Tetra-Ac

Melting Point: Mp 180-182°

>>Variant: (ξ)-form

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

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

>>Derivative: 7-Me ether

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

Biological Source: Reported from *Artemisia xanthochroa*

Physical Description: Cryst. (CHCl₃/EtOH)

Melting Point: Mp 220°

Optical Rotation: $[\alpha]_{\text{D}}^{24} -9.1$ (c, 0.90 in MeOH)

Other Data: Doubtful

References: