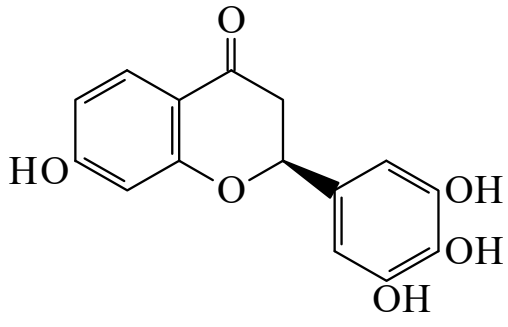
>>**Entry Name: 3',4',5',7-Tetrahydroxyflavanone**
Synonym(s): 2,3-Dihydro-7-hydroxy-2-(3,4,5-trihydroxyphenyl)-4*H*-1-benzopyran-4-one, 9CI. **Robtin**



(*S*)-*form*

CAS Registry Number: 4382-34-7

Molecular Formula: $C_{15}H_{12}O_6$
Molecular Weight: 288.256
Accurate Mass: 288.06339
Percentage Composition: C 62.50%; H 4.20%; O 33.30%

>>**Variant:** (*S*)-form

Molecular Formula: $C_{15}H_{12}O_6$
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: $[\alpha]_D^{25}$ –56.8 (c, 0.9 in MeOH)

>>**Derivative:** Tetra-Ac

Physical Description: Needles (EtOH)
Melting Point: Mp 180-182°
Optical Rotation: $[\alpha]_D$ +0.6 (c, 0.8 in tetrachloroethane)

>>**Variant:** (±)-form

Molecular Formula: $C_{15}H_{12}O_6$
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: $C_{15}H_{12}O_6$
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. ($CHCl_3$/EtOH)
Melting Point: Mp 220°
Optical Rotation: $[\alpha]_D^{24}$ –9.1 (c, 0.90 in MeOH)
Other Data: Doubtful

References: