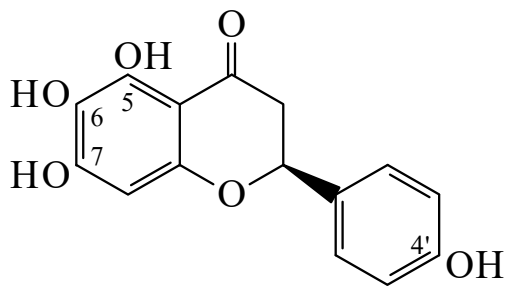




>>Entry Name: 4',5,6,7-Tetrahydroxyflavanone

Synonym(s): 2,3-Dihydro-5,6,7-trihydroxy-2-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl. Carthamidin. Isocarthamidin (obsol.)‡



CAS Registry Number: 479-54-9

Related CAS Registry Numbers(s): 2569-77-9 81524-08-5 93344-58-2

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: Isol. from *Scutellaria baicalensis* and *Scutellaria barbata*

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 220°

>>Derivative: 5-*O*-β-D-Glucopyranoside

Synonym(s): Isocarthamin. Neocarthamin

Molecular Formula: C₂₁H₂₂O₁₁

Molecular Weight: 450.398

Accurate Mass: 450.116215

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

Biological Source: Isol. from *Carthamus tinctorius*

Physical Description: Yellow cryst. +2H₂O

Melting Point: Mp 228°

Other Data: Probable struct. Has been descr. as a chalcone (deriv. of 2',3',4,4',6'-Pentahydroxychalcone [CMF11-C](#))

>>Derivative: 7-*O*-β-D-Glucuronopyranoside

CAS Registry Number: 119600-60-1

Molecular Formula: C₂₁H₂₀O₁₂

Molecular Weight: 464.382

Accurate Mass: 464.09548

Percentage Composition: C 54.32%; H 4.34%; O 41.34%

Biological Source: Constit. of *Scutellaria baicalensis* and *Scutellaria rivularis*

Melting Point: Mp 208 dec.°

>>Derivative: 6-Me ether

Synonym(s): 4',5,7-Trihydroxy-6-methoxyflavanone

CAS Registry Number: 94942-49-1

Molecular Formula: C₁₆H₁₄O₆

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

Biological Source: Isol. from *Scutellaria rivularis* and *Tanacetum sibiricum*

Physical Description: Light yellow cryst.

Melting Point: Mp 282-286°

Optical Rotation: [α]_D²⁰ +2.2 (Me₂CO)