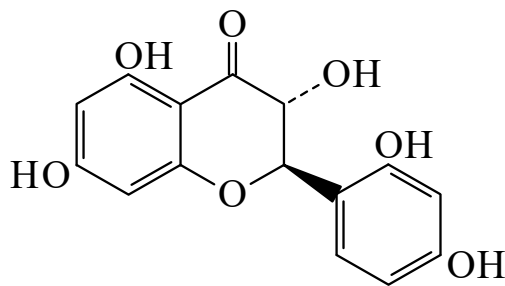




>>Entry Name: 2',3,4',5,7-Pentahydroxyflavanone

Synonym(s): 2-(2,4-Dihydroxyphenyl)-2,3-dihydro-3,5,7-trihydroxy-4H-1-benzopyran-4-one, 9Cl. 2',4',5,7-Tetrahydroxydihydroflavonol. **Dihydromorin**



Molecular Formula: C₁₅H₁₂O₇

Molecular Weight: 304.256

Accurate Mass: 304.058305

Percentage Composition: C 59.22%; H 3.98%; O 36.81%

Optical Rotation: $[\alpha]_D^{21} +63.5$ (c, 0.1 in MeOH)

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

CAS Registry Number: 18422-83-8

Molecular Formula: C₁₅H₁₂O₇

Molecular Weight: 304.256

Accurate Mass: 304.058305

Percentage Composition: C 59.22%; H 3.98%; O 36.81%

Biological Source: Isol. from the Moraceae (*Morus*, *Artocarpus*, *Chlorophora*, *Maclura*) also from *Scutellaria baicalensis*

Physical Description: Needles (Et₂O/petrol)

Melting Point: Mp 228° (224° dec.)

Optical Rotation: $[\alpha]_D^{21} +63.5$ (c, 0.1 in MeOH)

References:

Carruthers, W.R. *et al.*, *J.C.S.*, 1957, 4440

Laidlaw, R.A. *et al.*, *Chem. Ind. (London)*, 1958, 1325; 1959, 1604

Deshpande, V.H. *et al.*, *Indian J. Chem., Sect. B*, 1975, **13**, 453

Takagi, S. *et al.*, *Yakugaku Zasshi*, 1981, **101**, 899, (*isol*)

Shimizu, K. *et al.*, *Planta Med.*, 1998, **64**, 408-412, (*isol*)