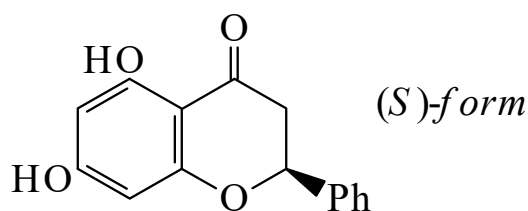




>>Entry Name: 5,7-Dihydroxyflavanone

Synonym(s): 2,3-Dihydro-5,7-dihydroxy-2-phenyl-4*H*-1-benzopyran-4-one, 9Cl. **Pinocembrin**



CAS Registry Number: 68745-38-0

Related CAS Registry Numbers(s): 1225-38-3 30784-66-8 61490-55-9 163660-09-1

Molecular Formula: C₁₅H₁₂O₄

Molecular Weight: 256.257

Accurate Mass: 256.07356

Percentage Composition: C 70.31%; H 4.72%; O 24.97%

UV: [acid] λ_{max} 229 (ε 14800); 290 (ε 28800) (MeOH/HCl) (Derep) [base] λ_{max} 246 (ε 7410); 324 (ε 25700) (MeOH/NaOH) (Derep) [neutral] λ_{max} 246 (ε 5130); 323 (ε 28800) (MeOH) (Derep) [neutral] λ_{max} 246 (ε 5100); 287 (ε 15500); 320 (ε 7460); 323 (ε 29000) (MeOH) (Berdy) [neutral] λ_{max} 211 (); 290 (); 324 () (EtOH) (Berdy) [acid] λ_{max} 229 (ε 15000); 290 (ε 30000) (MeOH-HCl) (Berdy) [base] λ_{max} 245 (); 246 (ε 7400); 324 (ε 25500); 325 () (MeOH-NAOH) (Berdy)

>>Variant: (*R*)-form

Molecular Formula: C₁₅H₁₂O₄

Molecular Weight: 256.257

Accurate Mass: 256.07356

Percentage Composition: C 70.31%; H 4.72%; O 24.97%

>>Derivative: 7-*O*-Benzoyl

Synonym(s): 7-*O*-Benzoyloxy-5-hydroxyflavanone. Pinocembrin 7-benzoate

CAS Registry Number: 153653-38-4

Molecular Formula: C₂₂H₁₆O₅

Molecular Weight: 360.365

Accurate Mass: 360.099775

Percentage Composition: C 73.33%; H 4.48%; O 22.20%

Biological Source: Constit. of *Lophopappus tarapacanus*

>>Derivative: 7-Me ether

Synonym(s): (+)-Pinostrobin

Molecular Formula: C₁₆H₁₄O₄

Molecular Weight: 270.284

Accurate Mass: 270.08921

Percentage Composition: C 71.10%; H 5.22%; O 23.68%

Biological Source: Constit. of *Salvia texana*

Physical Description: Cryst.

Melting Point: Mp 100-101°

Optical Rotation: [α]_D²⁵ +5 (c, 0.05 in MeOH)

>>Variant: (*S*)-form

CAS Registry Number: 480-39-7

Molecular Formula: C₁₅H₁₂O₄

Molecular Weight: 256.257

Accurate Mass: 256.07356

Percentage Composition: C 70.31%; H 4.72%; O 24.97%

Biological Source: Isol. from *Pinus cembra*, *Pinus excelsa*, leaves of *Eucalyptus sieberi*, *Baccharis* spp., *Hymenoclea monogyna*, *Alnus sieboldiana*, *Acacia*, *Alpinia*, *Artemisia*, *Chromolaena*, *Comptonia*, *Dodonaea*, *Glycyrrhiza*, *Myrica*, *Chrysothamnus*, *Helichrysum*, *Iryanthera*, *Larix*, *Prunus*, *Tarchonanthus*, *Citrus*, *Populus*, *Aniba* spp. and many others

Biological Use/Importance: Shows strong antimicrobial activity

Physical Description: Cryst. (MeOH)

Melting Point: Mp 192-193°

Optical Rotation: [α]_D¹⁵ -45.3 (c, 0.9 in Me₂CO)

Other Data: The abs. config. of isolates is not very clear: opt. rotns. not reported in most cases