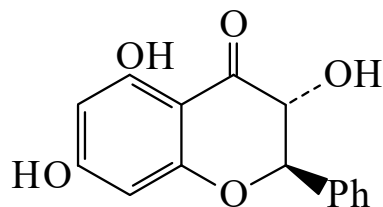




>>Entry Name: 3,5,7-Trihydroxyflavanone

Synonym(s): 2,3-Dihydro-3,5,7-trihydroxy-2-phenyl-4*H*-1-benzopyran-4-one, 9CI. 5,7-Dihydroxydihydroflavonol. **Pinobanksin**. Dihydrogalangol



CAS Registry Number: 96335-75-0

Related CAS Registry Numbers(s): 122585-69-7

Molecular Formula: C₁₅H₁₂O₅

Molecular Weight: 272.257

Accurate Mass: 272.068475

Percentage Composition: C 66.17%; H 4.44%; O 29.38%

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

CAS Registry Number: 548-82-3

Molecular Formula: C₁₅H₁₂O₅

Molecular Weight: 272.257

Accurate Mass: 272.068475

Percentage Composition: C 66.17%; H 4.44%; O 29.38%

Biological Source: Isol. from *Baccharis*, *Chromolaena*, *Eremophila*, *Polygonum*, *Pinus*, *Helichrysum*, *Larix*, *Prunus*, *Platanus* and *Tilia* spp.

Physical Description: Long yellow prisms (MeOH)

Melting Point: Mp 177-178°

Optical Rotation: [α]_D +15 (c, 2 in MeOH)

Solubility: BERDY SOL: Sol. H₂O, Et₂O

>>Derivative: 3-Ac

CAS Registry Number: 52117-69-8

Molecular Formula: C₁₇H₁₄O₆

Molecular Weight: 314.294

Accurate Mass: 314.07904

Percentage Composition: C 64.97%; H 4.49%; O 30.54%

Biological Source: Constit. of *Alpinia japonica*, *Comptonia peregrina*, *Populus gemma*, *Baccharis trinervis* and *Myrica pensylvanica*

Melting Point: Mp 135°

Optical Rotation: [α]_D²⁰ +17 (Py)

>>Derivative: 3-Propanoyl

Synonym(s): 5,7-Dihydroxy-3-propanoyloxyflavanone

CAS Registry Number: 126394-70-5

Molecular Formula: C₁₈H₁₆O₆

Molecular Weight: 328.321

Accurate Mass: 328.09469

Percentage Composition: C 65.85%; H 4.91%; O 29.24%

Biological Source: Constit. of *Populus* spp. and propolis

>>Derivative: 3-*O*-(2-Methylpropanoyl)

Synonym(s): 5,7-Dihydroxy-3-isobutanoyloxyflavanone

Molecular Formula: C₁₉H₁₈O₆

Molecular Weight: 342.348

Accurate Mass: 342.11034

Percentage Composition: C 66.66%; H 5.30%; O 28.04%

Biological Source: Isol. from propolis