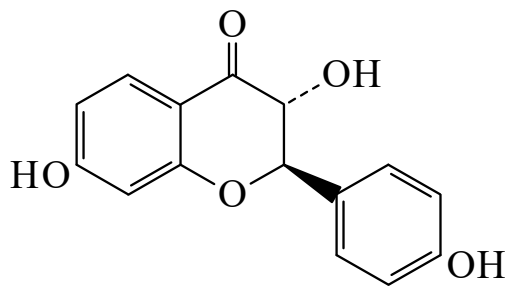




>>Entry Name: 3,4',7-Trihydroxyflavanone

Synonym(s): 2,3-Dihydro-3,7-dihydroxy-2-(4-hydroxyphenyl)-4H-1-benzopyran-4-one, 9Cl. 4',7-Dihydroxydihydroflavanol. Garbanzol



Related CAS Registry Numbers(s): 1807-98-3

Molecular Formula: C₁₅H₁₂O₅

Molecular Weight: 272.257

Accurate Mass: 272.068475

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

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

CAS Registry Number: 1226-22-8

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 *Acacia mearnsii*, *Cicer arietinum*, *Capsella bursa-pastoris*, *Onobrychis viciifolia* and *Pterocarpus marsupium*

Physical Description: Needles (H₂O)

Melting Point: Mp 207-208°

UV: [neutral] λ_{max} 274 (); 310 () (MeOH) (Berdy) [base] λ_{max} 250 (); 334 () (MeOH-NAOH) (Berdy) [neutral] λ_{max} 276 (); 311 () (EtOH) (Berdy)

>>Derivative: 3-O-β-D-Glucopyranoside

Synonym(s): Lecontin

CAS Registry Number: 19146-28-2

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

Biological Source: Isol. from *Baptisia lecontei*

Physical Description: Glass

Melting Point: Mp 125-130°

Optical Rotation: [α]_D²⁵ -16.75 (c, 1.83 in H₂O)

>>Derivative: 3-Ac

Synonym(s): 3-Acetoxy-4',7-dihydroxyflavanone. 3-O-Acetylgarbanzol

CAS Registry Number: 135607-78-2

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 *Inula viscosa*

>>Derivative: 4'-Me ether, 7-O-[β-D-xylopyranosyl-(1→6)-β-D-glucopyranoside]

Synonym(s): Kushenol J

CAS Registry Number: 101236-48-0

Molecular Formula: C₂₇H₃₂O₁₄

Molecular Weight: 580.541

Accurate Mass: 580.17921

Percentage Composition: C 55.86%; H 5.56%; O 38.58%

Biological Source: Isol. from *Sophora flavescens*

References: