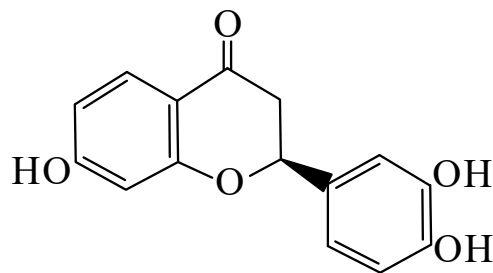




>>Entry Name: 3',4',7-Trihydroxyflavanone

Synonym(s): 2-(3,4-Dihydroxyphenyl)-2,3-dihydro-7-hydroxy-4*H*-1-benzopyran-4-one, 9Cl. **Butin**



CAS Registry Number: 21913-99-5

Related CAS Registry Numbers(s): 74628-42-5

Molecular Formula: C₁₅H₁₂O₅

Molecular Weight: 272.257

Accurate Mass: 272.068475

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

>>Variant: (*S*)-form

CAS Registry Number: 492-14-8

Molecular Formula: C₁₅H₁₂O₅

Molecular Weight: 272.257

Accurate Mass: 272.068475

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

Biological Source: Constit. of *Acacia* spp. Also from *Umtiza listerana*, *Peltogyne* spp., *Gliricidia sepium*, *Butea* and *Mangifera* spp. and others

Physical Description: Needles (EtOH)

Melting Point: Mp 224-226°

Optical Rotation: [α]_D -41 (c, 0.04 in MeOH)

>>Derivative: Tri-Ac

Molecular Formula: C₂₁H₁₈O₈

Molecular Weight: 398.368

Percentage Composition: C 63.32%; H 4.55%; O 32.13%

Physical Description: Leaflets (Et₂O/Me₂CO)

Melting Point: Mp 123-125°

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

Synonym(s): **Isocoreopsin**

CAS Registry Number: 30382-18-4

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

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

Biological Source: Constit. of *Bidens tripartita*, also from *Cosmos*, *Coreopsis* and *Dahlia* spp.

Melting Point: Mp 165-167°

Optical Rotation: [α]_D¹⁸ -78

>>Derivative: 3'-*O*-β-D-Glucopyranoside

Synonym(s): **Isomonospermoside**

CAS Registry Number: 30382-20-8

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 *Butea monosperma*

Melting Point: Mp 163°