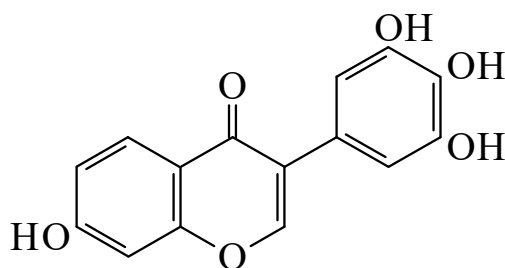




>>Entry Name: 3',4',5',7-Tetrahydroxyisoflavone

Synonym(s): 7-Hydroxy-3-(3,4,5-trihydroxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl. **Baptigenin**



CAS Registry Number: 5908-63-4

Molecular Formula: C₁₅H₁₀O₆

Molecular Weight: 286.24

Accurate Mass: 286.04774

Percentage Composition: C 62.94%; H 3.52%; O 33.54%

Biological Source: Isol. from roots of *Baptisia tinctoria*

Physical Description: Cryst. (EtOH)

Melting Point: Mp 284-285° (278-284°). Mp 299°

Other Data: Sublimes

>>Derivative: Tetra-Ac

Melting Point: Mp 214°

>>Derivative: Di-*O*- α -L-rhamnopyranoside(?)

Synonym(s): Baptisin

Molecular Formula: C₂₇H₃₀O₁₄

Molecular Weight: 578.526

Accurate Mass: 578.16356

Percentage Composition: C 56.06%; H 5.23%; O 38.72%

Biological Source: Isol. from root of *Baptisia tinctoria*

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 240° (sinters from 150°)

Optical Rotation: $[\alpha]_D^{20} -61.7$ (AcOH)

>>Derivative: 4'-Me ether

Synonym(s): 3',5',7-Trihydroxy-4'-methoxyisoflavone. **Gliricidin**

CAS Registry Number: 72061-64-4

Molecular Formula: C₁₆H₁₂O₆

Molecular Weight: 300.267

Accurate Mass: 300.06339

Percentage Composition: C 64.00%; H 4.03%; O 31.97%

Biological Source: Isol. from heartwood of *Gliricidia sepium*

Physical Description: Prisms (MeOH aq.)

Melting Point: Mp 298 dec.°

Other Data: Not to be confused with Gliricidin [GYF62-Q](#) from the same source

>>Derivative: 3',5'-Di-Me ether

Synonym(s): 4',7-Dihydroxy-3',5'-dimethoxyisoflavone

CAS Registry Number: 195445-59-1

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 *Tephrosia purpurea*

Physical Description: Off-white needles

Melting Point: Mp 260-262°

UV: [neutral] $\lambda_{\max}$ 234 (log ϵ 4.36); 249 (log ϵ 4.34); 270 (log ϵ 4.32); 310 (sh) (log ϵ 3.98) (MeOH)