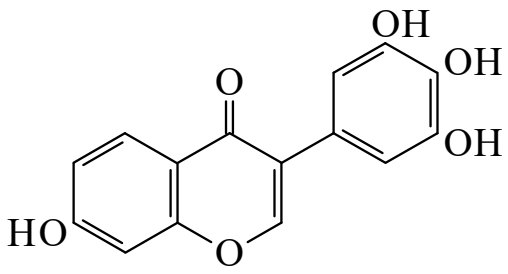
>>**Entry Name: 3',4',5',7-Tetrahydroxyisoflavone**
Synonym(s): 7-Hydroxy-3-(3,4,5-trihydroxyphenyl)-4*H*-1-benzopyran-4-one, 9CI. **Baptigenin**



CAS Registry Number: 5908-63-4

Molecular Formula: $C_{15}H_{10}O_6$
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: $C_{27}H_{30}O_{14}$
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: $C_{16}H_{12}O_6$
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: $C_{17}H_{14}O_6$
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] λ_{max} 234 (log ε 4.36); 249 (log ε 4.34); 270 (log ε 4.32); 310 (sh) (log ε 3.98) (MeOH)

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