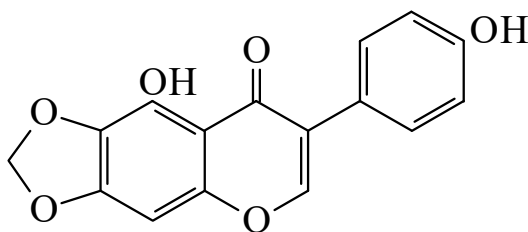




>>Entry Name: 4',5-Dihydroxy-6,7-methylenedioxyisoflavone

Synonym(s): 9-Hydroxy-7-(4-hydroxyphenyl)-8*H*-1,3-dioxolo[4,5-*g*][1]benzopyran-8-one, 9Cl. **Irilone**



CAS Registry Number: 41653-81-0

Molecular Formula: C₁₆H₁₀O₆

Molecular Weight: 298.251

Accurate Mass: 298.04774

Percentage Composition: C 64.43%; H 3.38%; O 32.19%

Biological Source: Constit. of *Iris germanica* and of *Trifolium pratense*

Physical Description: Yellow cryst.

Melting Point: Mp 231°

>>Derivative: 4'-*O*-β-D-Glucopyranoside

Synonym(s): Irilone 4'-glucoside

CAS Registry Number: 50868-47-8

Molecular Formula: C₂₂H₂₀O₁₁

Molecular Weight: 460.393

Accurate Mass: 460.100565

Percentage Composition: C 57.39%; H 4.38%; O 38.23%

Biological Source: Isol. from rhizomes of *Iris florentina* and roots of *Trifolium pratense*

Physical Description: Needles (CHCl₃/MeOH)(as pentaacetate)

Melting Point: Mp 233-235° (pentaacetate)

>>Derivative: 4'-Me ether

Synonym(s): 5-Hydroxy-4'-methoxy-6,7-methylenedioxyisoflavone

Molecular Formula: C₁₇H₁₂O₆

Molecular Weight: 312.278

Accurate Mass: 312.06339

Percentage Composition: C 65.39%; H 3.87%; O 30.74%

Biological Source: Constit. of *Ochna calodendron*

>>Derivative: 5-Me ether

Synonym(s): 4'-Hydroxy-5-methoxy-6,7-methylenedioxyisoflavone. **Irisolone**. Nigricin

CAS Registry Number: 3301-68-6

Molecular Formula: C₁₇H₁₂O₆

Molecular Weight: 312.278

Accurate Mass: 312.06339

Percentage Composition: C 65.39%; H 3.87%; O 30.74%

Biological Source: Isol. from *Iris florentina*, *Iris germanica* and *Iris nepalensis*

Physical Description: Plates (EtOAc/2-methoxyethanol)

Melting Point: Mp 227-229°. Mp 269-270°

Other Data: The lower Mp. refers to the later isolate named Nigricin