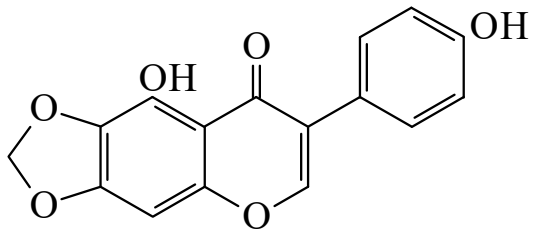
>>**Entry Name: 4',5-Dihydroxy-6,7-methylenedioxyisoflavone**
Synonym(s): 9-Hydroxy-7-(4-hydroxyphenyl)-8*H*-1,3-dioxolo[4,5-*g*][1]benzopyran-8-one, 9CI. **Irilone**



CAS Registry Number: 41653-81-0

Molecular Formula: $C_{16}H_{10}O_6$
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: $C_{22}H_{20}O_{11}$
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 ($CHCl_3$/MeOH)(as pentaacetate)
Melting Point: Mp 233-235° (pentaacetate)

>>**Derivative:** 4'-Me ether
Synonym(s): 5-Hydroxy-4'-methoxy-6,7-methylendioxyisoflavone

Molecular Formula: $C_{17}H_{12}O_6$
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: $C_{17}H_{12}O_6$
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