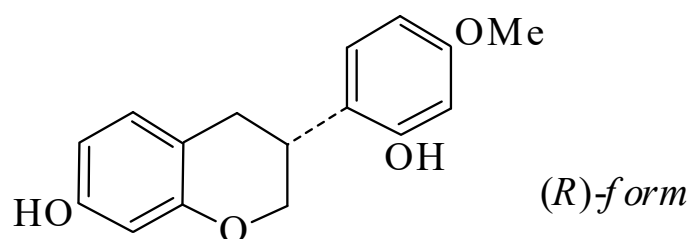




>>Entry Name: 2',7-Dihydroxy-4'-methoxyisoflavan

Synonym(s): 3,4-Dihydro-3-(2-hydroxy-4-methoxyphenyl)-2H-1-benzopyran-7-ol, 9Cl. Vestitol



CAS Registry Number: 56701-24-7

Molecular Formula: C₁₆H₁₆O₄

Molecular Weight: 272.3

Accurate Mass: 272.10486

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Source/Synthesis: Vestitol is a common constit. of the Leguminosae, subf. Papilionoideae chiefly as a phytoalexin

UV: [neutral] λ_{max} 206 (ε 45500); 228 (ε 11300); 285 (ε 5700) (EtOH) (Berdy)

>>Variant: (R)-form

CAS Registry Number: 35878-41-2

Molecular Formula: C₁₆H₁₆O₄

Molecular Weight: 272.3

Accurate Mass: 272.10486

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Biological Source: Constit. of *Cyclolobium claussemi*

Physical Description: Needles

Melting Point: Mp 159-160° (154-157°)

Optical Rotation: [α]_D¹⁸ -35.1 (c, 0.88 in MeOH)

>>Derivative: 7-O-β-D-Glucopyranoside

Molecular Formula: C₂₂H₂₆O₉

Molecular Weight: 434.442

Accurate Mass: 434.157685

Percentage Composition: C 60.82%; H 6.03%; O 33.14%

Biological Source: Constit. of *Glycyrrhiza uralensis*

Physical Description: Needles (MeOH aq.)

Melting Point: Mp 143-144°

Optical Rotation: [α]_D -35.5 (c, 1 in MeOH)

UV: [neutral] λ_{max} 206 (log ε 4.68); 223 (log ε 4.22); 280 (log ε 3.83); 285 (log ε 3.8) (MeOH)

>>Variant: (S)-form

CAS Registry Number: 20879-05-4

Molecular Formula: C₁₆H₁₆O₄

Molecular Weight: 272.3

Accurate Mass: 272.10486

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Biological Source: Constit. of *Dalbergia variabilis* and *Machaerium vestitum*

Melting Point: Mp 156°

Optical Rotation: [α]_D +21.6 (MeOH)

>>Variant: (±)-form

CAS Registry Number: 52305-03-0

Molecular Formula: C₁₆H₁₆O₄

Molecular Weight: 272.3

Accurate Mass: 272.10486

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Biological Source: Constit. of *Dalbergia odorifera* heartwood

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 173-175°