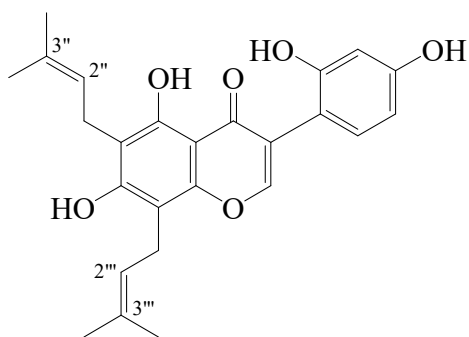




>>Entry Name: **2',4',5,7-Tetrahydroxy-6,8-diprenylisoflavone**

Synonym(s): 3-(2,4-Dihydroxyphenyl)-5,7-dihydroxy-6,8-bis(3-methyl-2-butenyl)-4*H*-1-benzopyran-4-one, 9Cl. 8-(3,3-Dimethylallyl)luteone. **8-Prenylluteone**



CAS Registry Number: 125002-91-7

Molecular Formula: C₂₅H₂₆O₆

Molecular Weight: 422.477

Accurate Mass: 422.17294

Percentage Composition: C 71.07%; H 6.20%; O 22.72%

Biological Source: Isol. from the stem bark of *Erythrina eriotriocha* and *Erythrina senegalensis*

Physical Description: Oil

>>Derivative: 2'-Me ether

Synonym(s): 4',5,7-Trihydroxy-2'-methoxy-6,8-diprenylisoflavone. **Euchrenone b₁₅**

CAS Registry Number: 142673-95-8

Molecular Formula: C₂₆H₂₈O₆

Molecular Weight: 436.504

Accurate Mass: 436.18859

Percentage Composition: C 71.54%; H 6.47%; O 21.99%

Biological Source: Constit. of the roots of *Euchresta japonica*

Physical Description: Yellow oil

>>Derivative: Δ^{3''}-Isomer, 2''-hydroxy

Synonym(s): **Erysenegalensein N**

Molecular Formula: C₂₅H₂₆O₇

Molecular Weight: 438.476

Accurate Mass: 438.167855

Percentage Composition: C 68.48%; H 5.98%; O 25.54%

Biological Source: Constit. of the stem bark of *Erythrina senegalensis*

Physical Description: Pale yellow oil

Optical Rotation: [α]_D²⁰ -3.3 (c, 0.8 in MeOH)

UV: [neutral] λ_{max} 268 () (MeOH)

>>Derivative: Δ^{3'''}-Isomer, 2'''-hydroxy

Synonym(s): **Erysenegalensein D**

CAS Registry Number: 154992-18-4

Molecular Formula: C₂₅H₂₆O₇

Molecular Weight: 438.476

Accurate Mass: 438.167855

Percentage Composition: C 68.48%; H 5.98%; O 25.54%

Biological Source: Constit. of the stem bark of *Erythrina senegalensis*

Physical Description: Brown cryst.

Melting Point: Mp 195-196°

Optical Rotation: [α]_D²⁰ +7.5 (c, 0.35 in CHCl₃)

References:

- Nkengfack, A.E. *et al.*, *Phytochemistry*, 1989, **28**, 2522, (*isol*)
Mizuno, M. *et al.*, *Phytochemistry*, 1992, **31**, 675, (*Euchrenone b₁₅*)
Wandji, J. *et al.*, *Phytochemistry*, 1994, **35**, 245, (*Erysenegalensein D*)
Oh, W.K. *et al.*, *Phytochemistry*, 1999, **51**, 1147-1150, (*Erysenegalensein N*)