



Synonym(s): Dihydrokaempferol 3-glucoside

CAS Registry Number: 31049-08-8

Molecular Formula: C₂₁H₂₂O₁₁

Molecular Weight: 450.398

Accurate Mass: 450.116215

Percentage Composition: C 56.00%; H 4.92%; O 39.08%

Biological Source: Isol. from *Podocarpus* spp., *Malus sylvestris* and *Dalbergia sericea*

Physical Description: Needles (MeOH/Et₂O)

Melting Point: Mp 225-230 dec.°

Optical Rotation: [α]_D -17.6 (c, 0.795 in MeOH)

>> **Derivative:** 7-*O*- β -D-Glucopyranoside

Synonym(s): Dihydrokaempferol 7-glucoside. **Sinensin.** Sinecin. Senecin

CAS Registry Number: 28189-90-4

Molecular Formula: C₂₁H₂₂O₁₁

Molecular Weight: 450.398

Accurate Mass: 450.116215

Percentage Composition: C 56.00%; H 4.92%; O 39.08%

Biological Source: Isol. from *Podocarpus* and *Primula* spp., *Matthiola incana* and *Cudrania javanensis*

>> **Derivative:** 7-*O*-[4-Hydroxy-2-methylenebutanoyl-($\rightarrow$ 6)- β -D-glucopyranoside]

Molecular Formula: C₂₆H₂₈O₁₃

Molecular Weight: 548.499

Accurate Mass: 548.152995

Percentage Composition: C 56.93%; H 5.15%; O 37.92%

Biological Source: Constit. of the stem bark of *Azelia bella*

Physical Description: Light yellow powder (MeOH aq.)

Melting Point: Mp 134-135°

Optical Rotation: [α]_D -67 (c, 0.1 in MeOH)

UV: [neutral] $\lambda_{\max}$ 284 (log ϵ 4.23); 326 (log ϵ 3.52) (MeOH)

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

CAS Registry Number: 87314-52-1

Molecular Formula: C₂₁H₂₂O₁₁

Molecular Weight: 450.398

Accurate Mass: 450.116215

Percentage Composition: C 56.00%; H 4.92%; O 39.08%

Biological Source: Constit. of *Althaea* spp. and *Petunia* sp.

>> **Derivative:** 3-*O*- β -D-Galactopyranoside

Synonym(s): Dihydrokaempferol 3-galactoside

Molecular Formula: C₂₁H₂₂O₁₁

Molecular Weight: 450.398

Accurate Mass: 450.116215

Percentage Composition: C 56.00%; H 4.92%; O 39.08%

Biological Source: Isol. from *Abies lasiocarpa*