



>>Derivative: 4'-O-β-D-Galactopyranoside

CAS Registry Number: 72539-34-5

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

Biological Source: Isol. from *Cleome viscosa*

Physical Description: Yellow needles (EtOAc/EtOH)

Melting Point: Mp 160-162°

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

Synonym(s): Choerospondin

CAS Registry Number: 81202-36-0

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

Biological Source: Constit. of *Althea* spp., *Choerospondias axillaris*, *Glycyrrhiza* sp., *Helichrysum* spp. and other plant spp.

Biological Use/Importance: Aldose reductase inhibitor

Calculated Log P Data: Log P -1.02 (uncertain value) (calc)

>>Derivative: 5-O-β-D-Glucopyranoside

Synonym(s): Floribundoside. Salipurposide. Helichrysin B

CAS Registry Number: 529-41-9

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

Biological Source: Occurs in *Acacia floribunda*, *Helichrysum arenarium*, *Persica vulgaris*, *Salix* and *Acacia* spp.

Physical Description: Pale yellow needles (EtOH)

Melting Point: Mp 227 dec.° (224-226°)

Optical Rotation: $[\alpha]_D^{20} -110.2$ (EtOH)

Other Data: Fluorescent in soln.

>>Derivative: 7-O-β-D-Glucopyranoside

Synonym(s): Prunin

CAS Registry Number: 529-55-5

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

Biological Source: Widely distributed, found in the Coniferae, Erythroxylaceae, Solanaceae, Hydrangaceae, Rosaceae, Compositae, Salicaceae, Cruciferae, Filicaceae, Corariaceae, Cochlospermaceae, Leguminosae and Scrophulariaceae

Physical Description: Cryst. (MeOH)

Melting Point: Mp 225°

Optical Rotation: $[\alpha]_D -41.8$ (Me₂CO)

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O

>>Derivative: 7-O-(6-O-Acetyl-β-D-glucopyranoside)

Synonym(s): 6''-O-Acetylprunin

CAS Registry Number: 252324-55-3

Molecular Formula: C₂₃H₂₄O₁₁

Molecular Weight: 476.436

Accurate Mass: 476.131865

Percentage Composition: C 57.98%; H 5.08%; O 36.94%

Biological Source: Constit. of the flowers of *Acacia saligna*