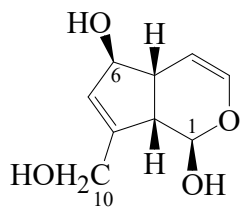




>>Entry Name: Aucubigenin

Synonym(s): Rhinanthogenin



CAS Registry Number: 64274-28-8

Molecular Formula: C₉H₁₂O₄

Molecular Weight: 184.191

Accurate Mass: 184.07356

Percentage Composition: C 58.69%; H 6.57%; O 34.75%

Physical Description: Oil

UV: [neutral] λ_{max} 204 (ε 1300) (MeOH) (Berdy)

Other Data: Unstable

>>Derivative: 1-*O*-β-D-Glucopyranoside

Synonym(s): Aucubin. Aucuboside. Rhinanthin. Rhimantin

CAS Registry Number: 479-98-1

Molecular Formula: C₁₅H₂₂O₉

Molecular Weight: 346.333

Accurate Mass: 346.126385

Percentage Composition: C 52.02%; H 6.40%; O 41.58%

Biological Source: Constit. of *Plantago lanceolata* and *Aucuba japonica*. Widespread in the Scrophulariaceae

Use/Importance: Antibacterial agent

Physical Description: Cryst. + 1H₂O (EtOH aq.)

Melting Point: Mp 181°

Optical Rotation: [α]_D²¹ -171.4 (H₂O)

Solubility: BERDY SOL: Sol. H₂O, EtOH, Et₂O, CHCl₃, MeOH

Calculated Log P Data: Log P -5.55 (uncertain value) (calc)

>>Derivative: 1-*O*-β-D-Glucopyranoside, 6-*O*-β-D-xylopyranoside

Synonym(s): 6-*O*-Xylosylaucubin

CAS Registry Number: 74848-99-0

Molecular Formula: C₂₀H₃₀O₁₃

Molecular Weight: 478.449

Accurate Mass: 478.168645

Percentage Composition: C 50.21%; H 6.32%; O 43.47%

Biological Source: Constit. of *Verbascum sinuatum*

Physical Description: Needles (EtOH)

Melting Point: Mp 192-193°

Optical Rotation: [α]_D²⁵ -85 (c, 1 in H₂O)

UV: [neutral] λ_{max} 204 (log ε 3.6) (MeOH)

>>Derivative: 1-*O*-β-D-Glucopyranoside, 6-*O*-α-L-rhamnopyranoside

Synonym(s): Sinuatol

CAS Registry Number: 78053-02-8

Molecular Formula: C₂₁H₃₂O₁₃

Molecular Weight: 492.476

Accurate Mass: 492.184295

Percentage Composition: C 51.22%; H 6.55%; O 42.23%

Biological Source: Constit. of *Verbascum sinuatum*

Physical Description: Amorph.

Optical Rotation: [α]_D²⁰ -158 (c, 0.3 in H₂O)