



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

Synonym(s): **Herbacintrin**. Isoarticulatin

CAS Registry Number: 35815-07-7

Molecular Formula: C₂₁H₂₀O₁₂

Molecular Weight: 464.382

Accurate Mass: 464.09548

Percentage Composition: C 54.32%; H 4.34%; O 41.34%

Biological Source: Pigment of the cotton flowers *Gossypium herbaceum*, *Gossypium indicum* and other plants

Physical Description: Yellow needles (Py aq.)

Melting Point: Mp 247-249°

>>Derivative: 7-*O*-[1,3,4,5-Tetrahydroxycyclohexanecarbonyl-(→6)-β-D-glucopyranoside]

Synonym(s): Herbacetin 7-(6-quinoylglucoside)

CAS Registry Number: 95262-52-5

Molecular Formula: C₂₈H₃₀O₁₇

Molecular Weight: 638.535

Accurate Mass: 638.148305

Percentage Composition: C 52.67%; H 4.74%; O 42.60%

Biological Source: Isol. from *Ephedra alata*

Physical Description: Dark yellow powder

>>Derivative: 8-*O*-β-D-Glucopyranoside

Synonym(s): **Herbacin**‡

CAS Registry Number: 11021-22-0

Molecular Formula: C₂₁H₂₀O₁₂

Molecular Weight: 464.382

Accurate Mass: 464.09548

Percentage Composition: C 54.32%; H 4.34%; O 41.34%

Biological Source: Isol. from *Calluna vulgaris*, *Limonium sinuatum*, *Althaea rosea* and other plant spp.

Melting Point: Mp 212-214°

>>Derivative: 8-*O*-(Di-*O*-acetyl-β-D-glucopyranoside)

Synonym(s): **Rhodalgisin**

CAS Registry Number: 72063-38-8

Molecular Formula: C₂₅H₂₄O₁₄

Molecular Weight: 548.456

Accurate Mass: 548.11661

Percentage Composition: C 54.75%; H 4.41%; O 40.84%

Biological Source: Isol. from *Rhodiola algida*

>>Derivative: 3,8-Di-*O*-β-D-glucopyranoside

Synonym(s): Herbacetin 3,8-diglucoside

CAS Registry Number: 99224-12-1

Molecular Formula: C₂₇H₃₀O₁₇

Molecular Weight: 626.524

Accurate Mass: 626.148305

Percentage Composition: C 51.76%; H 4.83%; O 43.41%

Biological Source: Constit. of the leaves of *Limonium sinuatum* and *Linum usitatissimum*

>>Derivative: 3-*O*-β-D-Glucuronoside, 8-*O*-β-D-glucopyranoside

CAS Registry Number: 113540-99-1

Molecular Formula: C₂₇H₂₈O₁₈

Molecular Weight: 640.507

Accurate Mass: 640.12757

Percentage Composition: C 50.63%; H 4.41%; O 44.96%

Biological Source: Isol. from *Roemeria hybrida*