



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

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

CAS Registry Number: 35815-07-7

**Molecular Formula:** C<sub>21</sub>H<sub>20</sub>O<sub>12</sub>

**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:** C<sub>28</sub>H<sub>30</sub>O<sub>17</sub>

**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:** C<sub>21</sub>H<sub>20</sub>O<sub>12</sub>

**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:** C<sub>25</sub>H<sub>24</sub>O<sub>14</sub>

**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:** C<sub>27</sub>H<sub>30</sub>O<sub>17</sub>

**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:** C<sub>27</sub>H<sub>28</sub>O<sub>18</sub>

**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*