



>>Derivative: 5-*O*-β-D-Galactopyranoside

Synonym(s): Pelargonidin 5-galactoside

CAS Registry Number: 157526-28-8

Molecular Formula: C<sub>21</sub>H<sub>21</sub>O<sub>10</sub><sup>(+)</sup>

Molecular Weight: 433.391

Accurate Mass: 433.113475

Percentage Composition: C 58.20%; H 4.88%; O 36.92%

Biological Source: Isol. from matara tea (*Cassia auriculata*)

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

Synonym(s): Callistephin. Pelargonidin 3-glucoside

CAS Registry Number: 18466-51-8

Molecular Formula: C<sub>21</sub>H<sub>21</sub>O<sub>10</sub><sup>(+)</sup>

Molecular Weight: 433.391

Accurate Mass: 433.113475

Percentage Composition: C 58.20%; H 4.88%; O 36.92%

Biological Source: Pigment from scarlet carnations. Present in numerous plants. First isol. from *Aster* sp. (WiUstätter)

Physical Description: Red cryst. (as chloride)

Other Data: The first cintlocyamin to be synthesised

>>Derivative: 3-*O*-β-D-Glucopyranoside, 5-*O*-(6-*O*-acetyl-β-D-glucopyranoside)

Molecular Formula: C<sub>29</sub>H<sub>33</sub>O<sub>16</sub><sup>(+)</sup>

Molecular Weight: 637.57

Accurate Mass: 637.176865

Percentage Composition: C 54.63%; H 5.22%; O 40.15%

Biological Source: Constit. of the flowers of *Verbena hybrida*

Physical Description: Orange-red powder

>>Derivative: 3-*O*-(6-*O*-Acetyl-β-D-glucopyranoside)

Molecular Formula: C<sub>23</sub>H<sub>23</sub>O<sub>11</sub><sup>(+)</sup>

Molecular Weight: 475.428

Accurate Mass: 475.12404

Percentage Composition: C 58.11%; H 4.88%; O 37.02%

Biological Source: Isol. from *Verbena hybrida*

Physical Description: Orange-red powder

>>Derivative: 3-*O*-(6-*O*-Malonyl-β-D-glucopyranoside)

Synonym(s): Pelargonidin 3-(6"-malonylglucoside)

CAS Registry Number: 104056-23-7

Molecular Formula: C<sub>24</sub>H<sub>23</sub>O<sub>13</sub><sup>(+)</sup>

Molecular Weight: 519.438

Accurate Mass: 519.11387

Percentage Composition: C 55.50%; H 4.46%; O 40.04%

Biological Source: Isol. from *Callistephus chinensis* and *Dianthus* sp.

>>Derivative: 3-*O*-[2-Hydroxysuccinoyl-(→6)-β-D-glucopyranoside]

Synonym(s): Pelargonidin 3-(6-malylglucoside)

CAS Registry Number: 104934-15-8

Molecular Formula: C<sub>25</sub>H<sub>25</sub>O<sub>14</sub><sup>(+)</sup>

Molecular Weight: 549.464

Accurate Mass: 549.124435

Percentage Composition: C 54.65%; H 4.59%; O 40.77%

Biological Source: Isol. from *Dianthus caryophyllus*