



>>Derivative: 2"-O-β-D-Glucopyranosyl

Synonym(s): Meloside A‡

CAS Registry Number: 60767-80-8

Molecular Formula: C<sub>27</sub>H<sub>30</sub>O<sub>15</sub>

Molecular Weight: 594.525

Accurate Mass: 594.158475

Percentage Composition: C 54.55%; H 5.09%; O 40.37%

Biological Source: Constit. of *Oxalis acetosella* and many other plants

Physical Description: Amorph. powder

Optical Rotation: [α]<sub>D</sub><sup>20</sup> -21 (c, 0.1 in MeOH)

Other Data: Softens at 210°. Meloside A is given the 2"-O-D-glucoside struct.

>>Derivative: 2"-O-β-D-Glucopyranosyl, 7-O-arabinoside

Molecular Formula: C<sub>32</sub>H<sub>38</sub>O<sub>19</sub>

Molecular Weight: 726.641

Accurate Mass: 726.200735

Percentage Composition: C 52.89%; H 5.27%; O 41.83%

Biological Source: Isol. from *Silene dioica*

>>Derivative: 2"-O-β-D-Glucopyranosyl, 7-O-xyloside

CAS Registry Number: 84842-16-0

Molecular Formula: C<sub>32</sub>H<sub>38</sub>O<sub>19</sub>

Molecular Weight: 726.641

Accurate Mass: 726.200735

Percentage Composition: C 52.89%; H 5.27%; O 41.83%

Biological Source: Isol. from *Melandrium album* and *Silene dioica*

>>Derivative: 2"-O-β-D-Glucopyranosyl, 7-O-β-D-glucopyranoside

CAS Registry Number: 83213-36-9

Molecular Formula: C<sub>33</sub>H<sub>40</sub>O<sub>20</sub>

Molecular Weight: 756.667

Accurate Mass: 756.2113

Percentage Composition: C 52.38%; H 5.33%; O 42.29%

Biological Source: Isol. from *Cerastium arvense*, *Melandrium album* and *Silene pratensis*

>>Derivative: 2"-O-β-D-Glucopyranosyl, 4'-O-β-D-glucopyranoside

CAS Registry Number: 63316-27-8

Molecular Formula: C<sub>33</sub>H<sub>40</sub>O<sub>20</sub>

Molecular Weight: 756.667

Accurate Mass: 756.2113

Percentage Composition: C 52.38%; H 5.33%; O 42.29%

Biological Source: Constit. of leaves of *Gentiana asclepiadea*

Melting Point: Mp 206-208°

>>Derivative: 2"-O-β-D-Glucopyranosyl, 7-O-β-D-galactopyranoside

CAS Registry Number: 92182-31-5

Molecular Formula: C<sub>33</sub>H<sub>40</sub>O<sub>20</sub>

Molecular Weight: 756.667

Accurate Mass: 756.2113

Percentage Composition: C 52.38%; H 5.33%; O 42.29%

Biological Source: Isol. from *Silene pratensis* and *Melandrium album*

>>Derivative: 2"-O-β-D-Glucopyranosyl, O-(3,4-Dihydroxycinnamoyl)

Synonym(s): Meloside a‡

CAS Registry Number: 39384-48-0