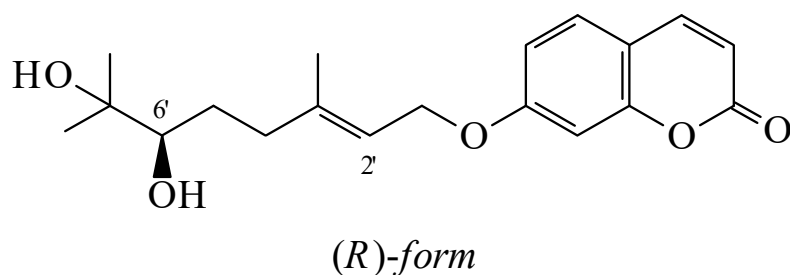




>>Entry Name: Marmin

ENTRY UNDER REVIEW

Synonym(s): 7-[(6,7-Dihydroxy-3,7-dimethyl-2-octenyl)oxy]-2*H*-1-benzopyran-2-one, 9Cl



**Molecular Formula:** C<sub>19</sub>H<sub>24</sub>O<sub>5</sub>

**Molecular Weight:** 332.396

**Accurate Mass:** 332.162375

**Percentage Composition:** C 68.66%; H 7.28%; O 24.07%

>>Variant: (R)-form

**CAS Registry Number:** 14957-38-1

**Molecular Formula:** C<sub>19</sub>H<sub>24</sub>O<sub>5</sub>

**Molecular Weight:** 332.396

**Accurate Mass:** 332.162375

**Percentage Composition:** C 68.66%; H 7.28%; O 24.07%

**Biological Source:** Constit. of *Aegle marmelos* trunk bark and grapefruit peel. Also from bark of *Fraxinus* spp.

**Biological Use/Importance:** Shows spasmolytic activity

**Physical Description:** Cryst. (EtOAc)

**Melting Point:** Mp 123-124°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +25 (EtOH)

>>Derivative: 6'-O- $\beta$ -D-Glucopyranoside

Synonym(s): Diversoside

**CAS Registry Number:** 55062-36-7

**Molecular Formula:** C<sub>25</sub>H<sub>34</sub>O<sub>10</sub>

**Molecular Weight:** 494.538

**Accurate Mass:** 494.2152

**Percentage Composition:** C 60.72%; H 6.93%; O 32.35%

**Biological Source:** From *Ferula diversivittata*

**Physical Description:** Cryst.

**Melting Point:** Mp 154-155°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> +10 (EtOH)

>>Derivative: 6'-O-Angeloyl

**Molecular Formula:** C<sub>24</sub>H<sub>30</sub>O<sub>6</sub>

**Molecular Weight:** 414.497

**Accurate Mass:** 414.20424

**Percentage Composition:** C 69.55%; H 7.29%; O 23.16%

**Biological Source:** Constit. of *Ferula malacophylla*

**Physical Description:** Oil

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> +19 (CHCl<sub>3</sub>)

>>Derivative: 6'-O-(4-Geranyloxy-2-hydroxycinnamoyl)

**Molecular Formula:** C<sub>38</sub>H<sub>46</sub>O<sub>8</sub>

**Molecular Weight:** 630.777

**Accurate Mass:** 630.31927

**Percentage Composition:** C 72.36%; H 7.35%; O 20.29%

**Biological Source:** Constit. of *Citrus hassaku* juice oil

**Physical Description:** Viscous oil

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>26</sup> +72 (c, 1.0 in EtOH)