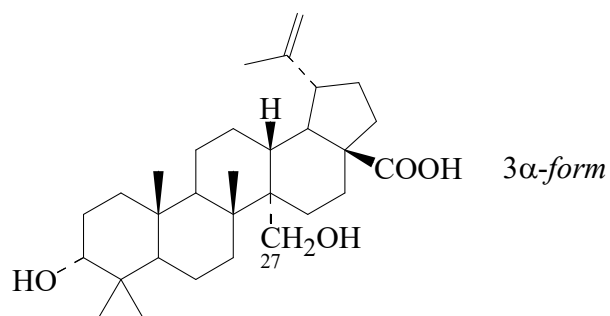




>>Entry Name: 3,27-Dihydroxy-20(29)-lupen-28-oic acid



**Molecular Formula:** C<sub>30</sub>H<sub>48</sub>O<sub>4</sub>

**Molecular Weight:** 472.707

**Accurate Mass:** 472.35526

**Percentage Composition:** C 76.23%; H 10.23%; O 13.54%

>>Variant: 3 $\alpha$ -form

**Molecular Formula:** C<sub>30</sub>H<sub>48</sub>O<sub>4</sub>

**Molecular Weight:** 472.707

**Accurate Mass:** 472.35526

**Percentage Composition:** C 76.23%; H 10.23%; O 13.54%

>>Derivative: Me ester

**CAS Registry Number:** 263844-79-7

**Molecular Formula:** C<sub>31</sub>H<sub>50</sub>O<sub>4</sub>

**Molecular Weight:** 486.734

**Accurate Mass:** 486.37091

**Percentage Composition:** C 76.50%; H 10.35%; O 13.15%

**Biological Source:** Constit. of *Peganum nigellastrum*

**Physical Description:** Needles (CHCl<sub>3</sub>)

**Melting Point:** Mp 132-134°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> -20 (c, 0.11 in CHCl<sub>3</sub>)

>>Derivative: 3-Ac, Me ester

**CAS Registry Number:** 263844-80-0

**Molecular Formula:** C<sub>33</sub>H<sub>52</sub>O<sub>5</sub>

**Molecular Weight:** 528.771

**Accurate Mass:** 528.381475

**Percentage Composition:** C 74.96%; H 9.91%; O 15.13%

**Biological Source:** Constit. of *Peganum nigellastrum*

**Physical Description:** Needles (CHCl<sub>3</sub>)

**Melting Point:** Mp 224-226°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> -42 (c, 0.2 in CHCl<sub>3</sub>)

>>Derivative: 27-Carboxylic acid, 3-Ac, 28-Me ester

**CAS Registry Number:** 263844-81-1

**Molecular Formula:** C<sub>33</sub>H<sub>50</sub>O<sub>6</sub>

**Molecular Weight:** 542.754

**Accurate Mass:** 542.36074

**Percentage Composition:** C 73.03%; H 9.29%; O 17.69%

**Biological Source:** Constit. of *Peganum nigellastrum*

**Physical Description:** Needles (Me<sub>2</sub>CO)

**Melting Point:** Mp 212-215°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +21 (c, 0.15 in CHCl<sub>3</sub>)