



>>Entry Name: 11-Octadecen-9-ynoic acid



**Molecular Formula:** C<sub>18</sub>H<sub>30</sub>O<sub>2</sub>

**Molecular Weight:** 278.434

**Accurate Mass:** 278.22458

**Percentage Composition:** C 77.65%; H 10.86%; O 11.49%

>>Variant: (*E*)-form

**Synonym(s):** Ximenynic acid. Santalbic acid

**CAS Registry Number:** 557-58-4

**Molecular Formula:** C<sub>18</sub>H<sub>30</sub>O<sub>2</sub>

**Molecular Weight:** 278.434

**Accurate Mass:** 278.22458

**Percentage Composition:** C 77.65%; H 10.86%; O 11.49%

**Physical Description:** Cryst. (Me<sub>2</sub>CO or petrol)

**Melting Point:** Mp 39-40°

**Boiling Point:** Bp<sub>0.075</sub> 198°

>>Derivative: Me ester

**Boiling Point:** Bp<sub>0.2</sub> 148°

>>Derivative: Et ester

**Boiling Point:** Bp<sub>0.2</sub> 168-169°

>>Derivative: Amide

**Melting Point:** Mp 105-105.5°

>>Derivative: 4-Bromophenacyl ester

**Melting Point:** Mp 53.8-54.2°

>>Variant: (*Z*)-form

**Molecular Formula:** C<sub>18</sub>H<sub>30</sub>O<sub>2</sub>

**Molecular Weight:** 278.434

**Accurate Mass:** 278.22458

**Percentage Composition:** C 77.65%; H 10.86%; O 11.49%

**Melting Point:** Mp 25.5-26.5°

**References:**

Lighthelm, S.P. *et al.*, *J.C.S.*, 1952, 1088

Gunstone, F.D. *et al.*, *J.C.S.*, 1955, 3782

Crombie, L. *et al.*, *J.C.S.*, 1957, 1622; 1958, 4435, (*synth*)

Hopkins, C.Y. *et al.*, *Phytochemistry*, 1969, **8**, 161, (*occur*)

Hopkins, C.Y., *Top. Lipid Chem.*, 1972, **3**, 37, (*rev*)