



**>>Entry Name: 9,11-Octadecadienoic acid**

**CAS Registry Number:** 1839-11-8  
H3C(CH2)5CH=CHCH=CH(CH2)7COOH

**Molecular Formula:** C<sub>18</sub>H<sub>32</sub>O<sub>2</sub>  
**Molecular Weight:** 280.45  
**Accurate Mass:** 280.24023  
**Percentage Composition:** C 77.09%; H 11.50%; O 11.41%

**>>Variant:** (*E,E*)-form  
**Synonym(s):** Mangold's acid

**CAS Registry Number:** 544-71-8  
**Molecular Formula:** C<sub>18</sub>H<sub>32</sub>O<sub>2</sub>  
**Molecular Weight:** 280.45  
**Accurate Mass:** 280.24023  
**Percentage Composition:** C 77.09%; H 11.50%; O 11.41%  
**Physical Description:** Cryst. (EtOH)  
**Melting Point:** Mp 54°

**>>Derivative:** Maleic anhydride adduct

**Molecular Formula:** C<sub>22</sub>H<sub>34</sub>O<sub>5</sub>  
**Molecular Weight:** 378.508  
**Accurate Mass:** 378.240625  
**Percentage Composition:** C 69.81%; H 9.05%; O 21.13%  
**Melting Point:** Mp 94.5°

**>>Derivative:** Amide

**Molecular Formula:** C<sub>18</sub>H<sub>33</sub>NO  
**Molecular Weight:** 279.465  
**Accurate Mass:** 279.256214  
**Percentage Composition:** C 77.36%; H 11.90%; N 5.01%; O 5.73%  
**Melting Point:** Mp 98-99°

**>>Variant:** (9*Z*,11*E*)-form

**CAS Registry Number:** 872-23-1  
**Molecular Formula:** C<sub>18</sub>H<sub>32</sub>O<sub>2</sub>  
**Molecular Weight:** 280.45  
**Accurate Mass:** 280.24023  
**Percentage Composition:** C 77.09%; H 11.50%; O 11.41%  
**Melting Point:** Mp 20°

**>>Variant:** (*Z,Z*)-form  
**Synonym(s):** Ricinenic acid

**CAS Registry Number:** 544-70-7  
**Molecular Formula:** C<sub>18</sub>H<sub>32</sub>O<sub>2</sub>  
**Molecular Weight:** 280.45  
**Accurate Mass:** 280.24023  
**Percentage Composition:** C 77.09%; H 11.50%; O 11.41%  
**Melting Point:** Mp 42-43.2°

**>>Derivative:** Me ester

**CAS Registry Number:** 822-10-6  
**Molecular Formula:** C<sub>19</sub>H<sub>34</sub>O<sub>2</sub>  
**Molecular Weight:** 294.476  
**Accurate Mass:** 294.25588  
**Percentage Composition:** C 77.50%; H 11.64%; O 10.87%  
**Melting Point:** Mp -8°

**References:**