



**Molecular Weight:** 324.546  
**Percentage Composition:** C 77.72%; H 12.42%; O 9.86%  
**Physical Description:** Oil  
**Boiling Point:** Bp<sub>13</sub> 220-225°  
**Sigma:** O9625

>>**Derivative:** Isopropyl ester  
**Synonym(s):** Isopropyl oleate

**CAS Registry Number:** 112-11-8

**Molecular Formula:** C<sub>21</sub>H<sub>40</sub>O<sub>2</sub>  
**Molecular Weight:** 324.546  
**Accurate Mass:** 324.30283  
**Percentage Composition:** C 77.72%; H 12.42%; O 9.86%  
**Biological Source:** Constit. of the pheromone of the beetle *Dermestes maculatus*  
**Physical Description:** Oil  
**Boiling Point:** Bp<sub>16</sub> 218°

>>**Derivative:** Butyl ester  
**Synonym(s):** Butyl oleate

**CAS Registry Number:** 142-77-8  
**Molecular Formula:** C<sub>22</sub>H<sub>42</sub>O<sub>2</sub>  
**Molecular Weight:** 338.573  
**Percentage Composition:** C 78.05%; H 12.50%; O 9.45%  
**Use/Importance:** Plasticiser  
**Physical Description:** Pale yellow oil  
**Melting Point:** Mp -26.4°  
**Boiling Point:** Bp 350-360° dec.. Bp<sub>15</sub> 225-226°  
**Solubility:** Insol. H<sub>2</sub>O

**Sigma:** O7500

>>**Derivative:** Vinyl ester  
**Synonym(s):** Vinyl oleate

**CAS Registry Number:** 3896-58-0  
**Molecular Formula:** C<sub>20</sub>H<sub>36</sub>O<sub>2</sub>  
**Molecular Weight:** 308.503  
**Accurate Mass:** 308.27153  
**Percentage Composition:** C 77.87%; H 11.76%; O 10.37%  
**Physical Description:** Oil  
**Boiling Point:** Bp<sub>2</sub> 173°

>>**Derivative:** Decyl ester  
**Synonym(s):** Decyl oleate

**CAS Registry Number:** 3687-46-5  
**Molecular Formula:** C<sub>28</sub>H<sub>54</sub>O<sub>2</sub>  
**Molecular Weight:** 422.733  
**Accurate Mass:** 422.41238  
**Percentage Composition:** C 79.56%; H 12.87%; O 7.57%  
**Use/Importance:** Used in cosmetics  
**Melting Point:** Mp 18.2°  
**Refractive Index:** n<sub>D</sub><sup>20</sup> 1.4522

>>**Derivative:** Tetradecyl ester  
**Synonym(s):** Tetradecyl 9-octadecenoate. Tetradecyl oleate

**CAS Registry Number:** 22393-85-7

**Molecular Formula:** C<sub>32</sub>H<sub>62</sub>O<sub>2</sub>  
**Molecular Weight:** 478.841  
**Accurate Mass:** 478.47498  
**Percentage Composition:** C 80.27%; H 13.05%; O 6.68%  
**Biological Source:** Constit. of the fruit of *Terminalia arjuna* and of the soft coral *Sarcophyton trocheliophorum*  
**Melting Point:** Mp 22.5°