



**Melting Point:** Mp 96-98°

**Other:** PB D01085

>>**Derivative:** Dodecyl ester

**Synonym(s):** Dodecyl gallate. E 312

**CAS Registry Number:** 1166-52-5

**Molecular Formula:** C<sub>19</sub>H<sub>30</sub>O<sub>5</sub>

**Molecular Weight:** 338.443

**Accurate Mass:** 338.209325

**Percentage Composition:** C 67.43%; H 8.93%; O 23.64%

**Use/Importance:** Used for gravimetric detn. of U. Antioxidant used in food

**Solubility:** Sol. EtOH, Me<sub>2</sub>CO

**Hazard & Toxicity:** LD<sub>50</sub> (mus, orl) 1600 mg/kg

**Aldrich:** 28963-9

**Fluka:** 48660

**Sigma:** L3638

**Supelco:** R47-4335

>>**Derivative:** Hexadecyl ester

**Synonym(s):** Hexadecyl 3,4,5-trihydroxybenzoate. Cetyl gallate

**CAS Registry Number:** 5026-65-3

**Molecular Formula:** C<sub>23</sub>H<sub>38</sub>O<sub>5</sub>

**Molecular Weight:** 394.55

**Accurate Mass:** 394.271925

**Percentage Composition:** C 70.02%; H 9.71%; O 20.28%

**Melting Point:** Mp 98-101°

**Other:** PB C07210

>>**Derivative:** Octadecyl ester

**Synonym(s):** Octadecyl 3,4,5-trihydroxybenzoate

**CAS Registry Number:** 10361-12-3

**Molecular Formula:** C<sub>25</sub>H<sub>42</sub>O<sub>5</sub>

**Molecular Weight:** 422.604

**Accurate Mass:** 422.303225

**Percentage Composition:** C 71.05%; H 10.02%; O 18.93%

**Physical Description:** Cryst. (C<sub>6</sub>H<sub>6</sub>/petrol)

**Melting Point:** Mp 104.5°

**Other:** PB S09030

>>**Derivative:** Benzyl ester

**Molecular Formula:** C<sub>14</sub>H<sub>12</sub>O<sub>5</sub>

**Molecular Weight:** 260.246

**Accurate Mass:** 260.068475

**Percentage Composition:** C 64.61%; H 4.65%; O 30.74%

**Physical Description:** Needles (Et<sub>2</sub>O/petrol)

**Melting Point:** Mp 148°

>>**Derivative:** Benzyl ester, tri-Ac

**Molecular Formula:** C<sub>20</sub>H<sub>18</sub>O<sub>8</sub>

**Molecular Weight:** 386.357

**Accurate Mass:** 386.10017

**Percentage Composition:** C 62.18%; H 4.70%; O 33.13%

**Physical Description:** Solid (CH<sub>2</sub>Cl<sub>2</sub>/petrol)

**Melting Point:** Mp 106-107°