



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: C₁₉H₃₀O₅

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, Me₂CO

Hazard & Toxicity: LD₅₀ (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: C₂₃H₃₈O₅

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: C₂₅H₄₂O₅

Molecular Weight: 422.604

Accurate Mass: 422.303225

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

Physical Description: Cryst. (C₆H₆/petrol)

Melting Point: Mp 104.5°

Other: PB S09030

>>**Derivative:** Benzyl ester

Molecular Formula: C₁₄H₁₂O₅

Molecular Weight: 260.246

Accurate Mass: 260.068475

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

Physical Description: Needles (Et₂O/petrol)

Melting Point: Mp 148°

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

Molecular Formula: C₂₀H₁₈O₈

Molecular Weight: 386.357

Accurate Mass: 386.10017

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

Physical Description: Solid (CH₂Cl₂/petrol)

Melting Point: Mp 106-107°