



Accurate Mass: 402.334525
Percentage Composition: C 68.61%; H 11.52%; O 19.87%
Use/Importance: Detergent

>>**Derivative:** Dioctadecanoyl
Synonym(s): *O,O'*-Distearoylpentaerythritol

CAS Registry Number: 13081-97-5
Molecular Formula: C₄₁H₈₀O₆
Molecular Weight: 669.079
Accurate Mass: 668.59549
Percentage Composition: C 73.60%; H 12.05%; O 14.35%
Use/Importance: Detergent
Melting Point: Mp 64°. Mp 71.5° (EtOH)
Other Data: Polymorphic

>>**Derivative:** Tetraoctadecanoyl
Synonym(s): Pentaerythritol tetrastearate. Tetrastearoylpentaerythritol

CAS Registry Number: 115-83-3
Molecular Formula: C₇₇H₁₄₈O₈
Molecular Weight: 1202.011
Accurate Mass: 1201.11742
Percentage Composition: C 76.94%; H 12.41%; O 10.65%
Use/Importance: Lubricant; mould release agent
Melting Point: Mp 76-77°

>>**Derivative:** Mononitrate

CAS Registry Number: 1607-00-7
Molecular Formula: C₅H₁₁NO₆
Molecular Weight: 181.145
Accurate Mass: 181.058639
Percentage Composition: C 33.15%; H 6.12%; N 7.73%; O 52.99%
Physical Description: Cryst. (CHCl₃)
Melting Point: Mp 79°

>>**Derivative:** Dinitrate

CAS Registry Number: 1607-01-8
Molecular Formula: C₅H₁₀N₂O₈
Molecular Weight: 226.143
Accurate Mass: 226.043718
Percentage Composition: C 26.56%; H 4.46%; N 12.39%; O 56.60%
Physical Description: Oil
Density: d₄²⁰ 1.487
Refractive Index: n_D²⁰ 1.4936

>>**Derivative:** Trinitrate
Synonym(s): Pentaerythritol trinitrate, 8Cl. **Pentrinitrol**, INN, USAN. Petrin. W 2197

CAS Registry Number: 1607-17-6

Molecular Formula: C₅H₉N₃O₁₀
Molecular Weight: 271.14
Accurate Mass: 271.028797
Percentage Composition: C 22.15%; H 3.35%; N 15.50%; O 59.01%
Use/Importance: Coronary vasodilator, active metab. of Pentaerithrityl tetranitrate [BGS23-T](#)
Physical Description: Oil
Density: d₄²⁰ 1.554
Refractive Index: n_D²⁰ 1.4941
Calculated Log P Data: Log P -0.01 (calc)