



Percentage Composition: C 77.24%; H 12.96%; O 9.80%
Physical Description: Prisms (petrol)
Melting Point: Mp 28.6°
Sigma: S4878

>>**Derivative:** Isopropyl ester

Synonym(s): Methylethyl octadecanoate. Isopropyl stearate

CAS Registry Number: 112-10-7
Molecular Formula: C₂₁H₄₂O₂
Molecular Weight: 326.562
Accurate Mass: 326.31848
Percentage Composition: C 77.24%; H 12.96%; O 9.80%

Melting Point: Mp 28.2-28.6° (24.1°)
Boiling Point: Bp₆ 207°. Bp_{0.5} 175-180°
Density: d^{37.8} 0.8403
Refractive Index: n_D⁴⁰ 1.4341

>>**Derivative:** Butyl ester

Synonym(s): Butyl octadecanoate. Butyl stearate

CAS Registry Number: 123-95-5
Molecular Formula: C₂₂H₄₄O₂
Molecular Weight: 340.588
Accurate Mass: 340.33413
Percentage Composition: C 77.58%; H 13.02%; O 9.40%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 27.5°

Aldrich: W22140-6
Fluka: 85720
Rare Chemicals Library: S43514-7
Sigma: S5001

>>**Derivative:** Vinyl ester

Synonym(s): Ethenyl octadecanoate. Vinyl stearate

CAS Registry Number: 111-63-7
Molecular Formula: C₂₀H₃₈O₂
Molecular Weight: 310.519
Accurate Mass: 310.28718
Percentage Composition: C 77.36%; H 12.33%; O 10.30%
Use/Importance: Plasticiser
Physical Description: Waxy solid
Melting Point: Mp 35-36°
Boiling Point: Bp₃ 175°
Solubility: Insol. H₂O, EtOH
Other Data: Undergoes radical polym. Q/e values for copolym., Q 0.043, e -0.97
Aldrich: 43620-8
Rare Chemicals Library: S37104-1

>>**Derivative:** 2-Propenyl ester

Synonym(s): 2-Propenyl octadecanoate. Allyl stearate

CAS Registry Number: 6289-31-2
Molecular Formula: C₂₁H₄₀O₂
Molecular Weight: 324.546
Accurate Mass: 324.30283
Percentage Composition: C 77.72%; H 12.42%; O 9.86%
Melting Point: Mp 37-38°
Boiling Point: Bp₁ 179-180°

>>**Derivative:** Octyl ester

Synonym(s): Octyl octadecanoate. Octyl stearate