



Percentage Composition: C 61.09%; H 9.32%; O 29.59%

Physical Description: Cryst.

Melting Point: Mp 25-26°

Boiling Point: Bp₃ 157-159°

>>**Derivative:** Di-Et ester

Synonym(s): Diethyl azelate

CAS Registry Number: 624-17-9

Molecular Formula: C₁₃H₂₄O₄

Molecular Weight: 244.33

Accurate Mass: 244.16746

Percentage Composition: C 63.91%; H 9.90%; O 26.19%

Physical Description: Liq.

Melting Point: Mp -18.5°

Boiling Point: Bp 291.5°. Bp₅₀ 189.5°

Solubility: Insol. H₂O; sol. EtOH, Et₂O

Density: d²⁰ 0.973

Refractive Index: n_D²⁰ 1.4351

Aldrich: 12458-3

>>**Derivative:** Dihexyl ester

CAS Registry Number: 109-31-9

Molecular Formula: C₂₁H₄₀O₄

Molecular Weight: 356.545

Accurate Mass: 356.29266

Percentage Composition: C 70.74%; H 11.31%; O 17.95%

Use/Importance: Plasticiser

>>**Derivative:** Diisooctyl ester

CAS Registry Number: 26544-17-2

Molecular Formula: C₂₅H₄₈O₄

Molecular Weight: 412.652

Accurate Mass: 412.35526

Percentage Composition: C 72.77%; H 11.72%; O 15.51%

Physical Description: Plasticiser

Boiling Point: Bp₅ 237°

Other Data: Mixt. of structural isomers

>>**Derivative:** Bis(2-ethylhexyl) ester

Synonym(s): Priplast 3018. Plasthall DOZ. Kodaflex DOZ

CAS Registry Number: 103-24-2

Molecular Formula: C₂₅H₄₈O₄

Molecular Weight: 412.652

Accurate Mass: 412.35526

Percentage Composition: C 72.77%; H 11.72%; O 15.51%

Use/Importance: Synthetic lubricant, plasticiser for chloroprene and nitrile rubbers

Boiling Point: Bp 376°

Density: d₂₅²⁵ 0.91

Refractive Index: n_D²⁵ 1.4481

>>**Derivative:** Dichloride

CAS Registry Number: 123-98-8

Molecular Formula: C₉H₁₄Cl₂O₂

Molecular Weight: 225.114

Accurate Mass: 224.037084

Percentage Composition: C 48.02%; H 6.27%; Cl 31.50%; O 14.21%

Use/Importance: Monomer for polyamides and polyesters

Boiling Point: Bp₁₈ 166°

Density: d²⁵ 0.938

Aldrich: 29969-3

Fluka: 11520

Sigma: A9660