



Other Data: Vp <0.1 mmHg (20°)

Hazard & Toxicity: Fl. p. 146°, autoignition temp. 490/555°. Eye irritant. Lacks biological effects associated with long-chain analogues. OES: long-term 5 mg m⁻³; short-term 10 mg m⁻³

Aldrich: 24068-0

Fluka: 80140

Supelco: R43-0710

>>**Derivative:** Mono-Et ester

Synonym(s): Monoethyl phthalate

CAS Registry Number: 2306-33-4

Molecular Formula: C₁₀H₁₀O₄

Molecular Weight: 194.187

Accurate Mass: 194.05791

Percentage Composition: C 61.85%; H 5.19%; O 32.96%

Physical Description: Cryst. (CS₂)

Melting Point: Mp 47-48°

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

Synonym(s): Diethyl phthalate. DEP

CAS Registry Number: 84-66-2

Molecular Formula: C₁₂H₁₄O₄

Molecular Weight: 222.24

Accurate Mass: 222.08921

Percentage Composition: C 64.85%; H 6.35%; O 28.80%

Use/Importance: Plasticiser, perfume fixative

Melting Point: Mp -0.3°

Boiling Point: Bp 298°. Bp₁₀ 157°

Solubility: Insol. H₂O; misc. most org. solvs.

Refractive Index: n_D²⁵ 1.5002

Hazard & Toxicity: Irritant, fl. p. 117°, autoignition temp. 457°. OES long-term 5 mg m⁻³; short-term 10 mg m⁻³

Aldrich: W51220-6

Fluka: 80080

Sigma: D4650

Supelco: 4-8561

>>**Derivative:** Monopropyl ester

Synonym(s): Monopropyl phthalate

CAS Registry Number: 4376-19-6

Molecular Formula: C₁₁H₁₂O₄

Molecular Weight: 208.213

Accurate Mass: 208.07356

Percentage Composition: C 63.45%; H 5.81%; O 30.74%

Physical Description: Cryst. (CHCl₃/Et₂O)

Melting Point: Mp 54-55°

>>**Derivative:** Dipropyl ester

Synonym(s): Dipropyl phthalate

CAS Registry Number: 131-16-8

Molecular Formula: C₁₄H₁₈O₄

Molecular Weight: 250.294

Accurate Mass: 250.12051

Percentage Composition: C 67.18%; H 7.25%; O 25.57%

Use/Importance: Plasticiser

Boiling Point: Bp 317.5° (304-305°)

Density: d²⁵ 1.071

Refractive Index: n_D²⁰ 1.4170

Aldrich: 29060-2

Fluka: 80156