



Physical Description: Syrup

Density: d_4^{20} 1.18

Refractive Index: n_D^{20} 1.4560

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

Synonym(s): Diethyl maleate

CAS Registry Number: 141-05-9

Molecular Formula: $C_8H_{12}O_4$

Molecular Weight: 172.18

Accurate Mass: 172.07356

Percentage Composition: C 55.81%; H 7.02%; O 37.17%

Use/Importance: Fragrance ingredient, low oral tox.

Melting Point: $Mp -10^\circ$

Boiling Point: $Bp 225^\circ$. Bp_{14} 105-106°

Solubility: Insol. H_2O ; sol. EtOH, Et_2O

Refractive Index: n_D^{20} 1.4410

Other Data: Q/e values for copolym., Q 0.053, e 1.08. Copolym. with vinyl chloride, r_{EM} 0.0, r_{VC} 0.8 (typical values)

Hazard & Toxicity: Skin and eye irritant

Aldrich: W50500-5

Fluka: 63219

Sigma: M5887

>>**Derivative:** Dipropyl ester

Synonym(s): Dipropyl maleate

CAS Registry Number: 2432-63-5

Molecular Formula: $C_{10}H_{16}O_4$

Molecular Weight: 200.234

Accurate Mass: 200.10486

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Boiling Point: Bp_{12} 126°

Density: d^{20} 1.024

Refractive Index: n_D^{20} 1.4433

>>**Derivative:** Di-2-propenyl ester

CAS Registry Number: 999-21-3

Molecular Formula: $C_{10}H_{12}O_4$

Molecular Weight: 196.202

Accurate Mass: 196.07356

Percentage Composition: C 61.22%; H 6.16%; O 32.62%

Physical Description: Liq. with pungent odour

Melting Point: $Mp -47^\circ$

Boiling Point: $Bp_{0.5}$ 112°

Density: d^{25} 1.07

Refractive Index: n_D^{25} 1.4660

Hazard & Toxicity: Skin irritant. LD_{50} (rat, orl) 300 mg/kg

Aldrich: 29122-6

Fluka: 63230

>>**Derivative:** Monobutyl ester

Synonym(s): Butyl maleate

CAS Registry Number: 925-21-3

Molecular Formula: $C_8H_{12}O_4$

Molecular Weight: 172.18

Accurate Mass: 172.07356

Percentage Composition: C 55.81%; H 7.02%; O 37.17%

Physical Description: Oil

Density: d_4^{25} 1.09

Refractive Index: n_D^{25} 1.4554

>>**Derivative:** Dibutyl ester

Synonym(s): Dibutyl maleate