



Molecular Weight: 144.127
Accurate Mass: 144.04226
Percentage Composition: C 50.00%; H 5.59%; O 44.40%
Melting Point: Mp 66-68° (65°)
Boiling Point: Bp₁₆ 147°
Solubility: Sol. EtOH, Me₂CO
Aldrich: 12842-2
Fluka: 47985

>>**Derivative:** Di-Et ester
Synonym(s): Diethyl fumarate

CAS Registry Number: 623-91-6
Molecular Formula: C₈H₁₂O₄
Molecular Weight: 172.18
Accurate Mass: 172.07356
Percentage Composition: C 55.81%; H 7.02%; O 37.17%
Use/Importance: Fragrance ingredient
Physical Description: Liq.
Melting Point: Mp 1-2°
Boiling Point: Bp 218-219°. Bp₁₀ 95-96°
Solubility: Insol. H₂O; sol. Me₂CO, CHCl₃
Density: d²⁰ 1.045
Refractive Index: n_D²⁰ 1.4412
Other Data: Q/e values for copolym., Q 0.25, e 2.26. Copolym. with vinyl chloride: r_{DE} 0.47, r_{VC} 0.12 (typical values, 60°); Q 0.61; e 1.25
Hazard & Toxicity: LD₅₀ (rat, orl) 1780 mg/kg

Aldrich: D9565-4
Fluka: 47930

>>**Derivative:** Dipropyl ester
Synonym(s): Dipropyl fumarate

CAS Registry Number: 14595-35-8
Molecular Formula: C₁₀H₁₆O₄
Molecular Weight: 200.234
Accurate Mass: 200.10486
Percentage Composition: C 59.98%; H 8.05%; O 31.96%
Boiling Point: Bp₅ 110°
Density: d²⁰ 1.013
Refractive Index: n_D²⁰ 1.4439

>>**Derivative:** Diisopropyl ester
Synonym(s): Diisopropyl fumarate

CAS Registry Number: 7283-70-7
Molecular Formula: C₁₀H₁₆O₄
Molecular Weight: 200.234
Accurate Mass: 200.10486
Percentage Composition: C 59.98%; H 8.05%; O 31.96%
Boiling Point: Bp 225-226°

>>**Derivative:** Di-2-propenyl ester
Synonym(s): Di-2-propenyl fumarate. Diallyl fumarate

CAS Registry Number: 2807-54-7
Molecular Formula: C₁₀H₁₂O₄
Molecular Weight: 196.202
Accurate Mass: 196.07356
Percentage Composition: C 61.22%; H 6.16%; O 32.62%
Use/Importance: Crosslinking comonomer
Physical Description: Liq. with pungent odour
Boiling Point: Bp₃ 140°
Solubility: Insol. H₂O
Density: d²⁵ 1.07
Refractive Index: n_D²⁰ 1.4664
Hazard & Toxicity: Skin irritant
Other: PB: D03540