



Physical Description: Liq.
Boiling Point: Bp₁₂ 93-95°
Density: d₄²⁰ 0.99
Refractive Index: n_D²⁰ 1.4123

>>Derivative: Dibutyl ester

Synonym(s): Dibutyl malonate. Butyl malonate

CAS Registry Number: 1190-39-2
Molecular Formula: C₁₁H₂₀O₄
Molecular Weight: 216.277
Accurate Mass: 216.13616
Percentage Composition: C 61.09%; H 9.32%; O 29.59%
Biological Use/Importance: Shows significant nematocidal activity
Boiling Point: Bp₅ 118-120°. Bp_{0.3} 62°
Density: d₂₀²⁰ 0.965. d₄²⁰ 0.9824
Refractive Index: n_D²⁰ 1.4265

>>Derivative: Mono-*tert*-butyl ester

CAS Registry Number: 40052-13-9
Molecular Formula: C₇H₁₂O₄
Molecular Weight: 160.169
Accurate Mass: 160.07356
Percentage Composition: C 52.49%; H 7.55%; O 39.96%
Physical Description: Cryst.
Melting Point: Mp 19-20°
Boiling Point: Bp₂ 90°
Density: d 1.04
Refractive Index: n_D²⁰ 1.4260

>>Derivative: Di-*tert*-butyl ester

CAS Registry Number: 541-16-2
Molecular Formula: C₁₁H₂₀O₄
Molecular Weight: 216.277
Accurate Mass: 216.13616
Percentage Composition: C 61.09%; H 9.32%; O 29.59%
Use/Importance: Reagent for synth. of ketones from acid chlorides
Melting Point: Mp -6°
Boiling Point: Bp₁ 65-67°
Aldrich: 25448-7
Fluka: 63350
Sigma: M2281

>>Derivative: Dibenzyl ester

CAS Registry Number: 15014-25-2
Molecular Formula: C₁₇H₁₆O₄
Molecular Weight: 284.311
Accurate Mass: 284.10486
Percentage Composition: C 71.82%; H 5.67%; O 22.51%
Use/Importance: Intermed. for the synthesis of methyl ketones
Boiling Point: Bp_{0.2} 188°
Refractive Index: n_D²⁰ 1.5460
Aldrich: 16040-7
Fluka: 63345