



Percentage Composition: C 36.59%; H 4.91%; O 58.49%

Physical Description: Cryst. (C₆H₆ or petrol)

Melting Point: Mp 81° (78°)

Solubility: V. sol. H₂O, sol. EtOH, C₆H₆

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

Synonym(s): Diethyl mesoxalate

CAS Registry Number: 609-09-6

Molecular Formula: C₇H₁₀O₅

Molecular Weight: 174.153

Accurate Mass: 174.052825

Percentage Composition: C 48.28%; H 5.79%; O 45.93%

Physical Description: Oil

Melting Point: Mp 56-58°

Boiling Point: Bp 208-210°. Bp₁₇ 106-108°. Bp₄ 80-83°

Refractive Index: n_D²⁰ 1.4150

Aldrich: D9740-1

Fluka: 63970

Sigma: K3127

>>**Derivative:** Di-Et ester, covalent hydrate

Synonym(s): Diethyl mesoxalate hydrate

CAS Registry Number: 631-23-2

Molecular Formula: C₇H₁₂O₆

Molecular Weight: 192.168

Accurate Mass: 192.06339

Percentage Composition: C 43.75%; H 6.29%; O 49.95%

Physical Description: Cryst.

Melting Point: Mp 56°

>>**Derivative:** Dihydrazide

Molecular Formula: C₃H₆N₄O₃

Molecular Weight: 146.105

Accurate Mass: 146.043991

Percentage Composition: C 24.66%; H 4.14%; N 38.35%; O 32.85%

Melting Point: Mp 110 dec.°

>>**Derivative:** Dihydrazide, hydrazone

Molecular Formula: C₃H₈N₆O₂

Molecular Weight: 160.135

Accurate Mass: 160.070874

Percentage Composition: C 22.50%; H 5.04%; N 52.48%; O 19.98%

Melting Point: Mp 187°

>>**Derivative:** Dinitrile

>>**Derivative:** Di-Me acetal, di-Me ester

Synonym(s): Dimethyl dimethoxymalonate

CAS Registry Number: 29340-86-1

Molecular Formula: C₇H₁₂O₆

Molecular Weight: 192.168

Accurate Mass: 192.06339

Percentage Composition: C 43.75%; H 6.29%; O 49.95%

Boiling Point: Bp₁ 97-105°