



Percentage Composition: C 54.95%; H 8.45%; O 36.60%

Physical Description: Liq.

Boiling Point: Bp₅₀ 70°

>>**Variant:** Enol-form

CAS Registry Number: 50850-50-5

Molecular Formula: C₄H₄O₅

Molecular Weight: 132.073

Accurate Mass: 132.005875

Percentage Composition: C 36.38%; H 3.05%; O 60.57%

>>**Derivative:** Me ether, di-Me ester

Synonym(s): Dimethyl (methoxymethylene)malonate

CAS Registry Number: 22398-14-7

Molecular Formula: C₇H₁₀O₅

Molecular Weight: 174.153

Accurate Mass: 174.052825

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

Melting Point: Mp 46°

Boiling Point: Bp₂₀ 167°. Bp_{0.7} 106°

>>**Derivative:** Dinitrile, Et ether

Synonym(s): (Ethoxymethylene)propanedinitrile. (Ethoxymethylene)malononitrile

CAS Registry Number: 123-06-8

Molecular Formula: C₆H₆N₂O

Molecular Weight: 122.126

Accurate Mass: 122.048013

Percentage Composition: C 59.01%; H 4.95%; N 22.94%; O 13.10%

Melting Point: Mp 64-66°

Boiling Point: Bp₁₂ 160°

Hazard & Toxicity: Strong sensitising agent

Aldrich: E620-0

Fluka: 2760

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 1374C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 854B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 812B, (*ir*)

v. Auers, K., *Annalen*, 1918, **415**, 169, (*ester, synth*)

Fuson, R.C. *et al.*, *J.O.C.*, 1946, **11**, 194, (*synth*)

Vinokurov, V.G. *et al.*, *Zh. Fiz. Khim.*, 1968, **42**, 1052, (*spectra*)

Kabusz, S. *et al.*, *Synthesis*, 1971, 312, (*acetal*)

Matrosov, E.I. *et al.*, *Spectrochim. Acta A*, 1972, **28**, 191, (*spectra*)

Alaimo, R.J., *J. Het. Chem.*, 1973, **10**, 769, (*synth*)

Sato, M. *et al.*, *Chem. Pharm. Bull.*, 1989, **37**, 665, (*monoesters*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, EEW000