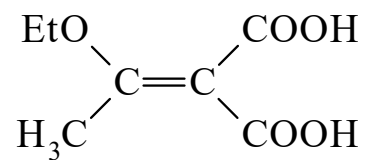




>>Entry Name: (1-Ethoxyethylidene)propanedioic acid, 9CI

Synonym(s): (1-Ethoxyethylidene)malonic acid, 8CI



Molecular Formula: C₇H₁₀O₅

Molecular Weight: 174.153

Accurate Mass: 174.052825

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

>>Derivative: Di-Et ester

CAS Registry Number: 3044-06-2

Molecular Formula: C₁₁H₁₈O₅

Molecular Weight: 230.26

Accurate Mass: 230.115425

Percentage Composition: C 57.38%; H 7.88%; O 34.74%

Melting Point: Mp 26-27°

Boiling Point: Bp_{0.03} 84°

>>Derivative: Dinitrile

Synonym(s): 1,1-Dicyano-2-ethoxypropene

CAS Registry Number: 5417-82-3

Molecular Formula: C₇H₈N₂O

Molecular Weight: 136.153

Accurate Mass: 136.063663

Percentage Composition: C 61.75%; H 5.92%; N 20.57%; O 11.75%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 92°

Boiling Point: Bp₂ 120°

Aldrich: 15926-3

Rare Chemicals Library: S3663-4

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 1375A, (*nmr*)

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

McElvain, S.M. *et al.*, *J.A.C.S.*, 1942, **64**, 1831, (*ester*)

Cheng, C.C. *et al.*, *J.O.C.*, 1956, **21**, 1240, (*nitrile*)

Schmidt, H. *et al.*, *Monatsh. Chem.*, 1977, **108**, 895, (*synth, ir, pmr, nitrile*)