>>**Entry Name: Di-2-propenylpropanedioic acid,** 9CI
Synonym(s): Diallymalonic acid. 1,6-Heptadiene-4,4-dicarboxylic acid

CAS Registry Number: 4372-31-0
$(H_2C{=}CHCH_2)_2C(COOH)_2$

Molecular Formula: $C_9H_{12}O_4$
Molecular Weight: 184.191
Accurate Mass: 184.07356
Percentage Composition: C 58.69%; H 6.57%; O 34.75%
Physical Description: Cryst. (H_2O or C_6H_6)
Melting Point: Mp 135-137°
pKa Value: pK_a 2.1 (25°)

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

CAS Registry Number: 3195-24-2
Molecular Formula: $C_{13}H_{20}O_4$
Molecular Weight: 240.299
Accurate Mass: 240.13616
Percentage Composition: C 64.98%; H 8.39%; O 26.63%
Boiling Point: Bp_{12} 120-122°
Aldrich: 28347-9
Rare Chemicals Library: S52132-9

>>**Derivative:** Diamide

Molecular Formula: $C_9H_{14}N_2O_2$
Molecular Weight: 182.222
Accurate Mass: 182.105528
Percentage Composition: C 59.32%; H 7.74%; N 15.37%; O 17.56%
Melting Point: Mp 202°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 996C, *(nmr)*
Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 640A, *(ir)*
Leuchs, H. *et al.*, *Ber.*, 1914, **47**, 2573, *(synth)*
Shimo, K. *et al.*, *J.O.C.*, 1959, **24**, 19, *(synth)*