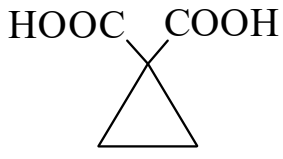
>>**Entry Name: 1,1-Cyclopropanedicarboxylic acid,** 9CI
Synonym(s): Ethylenemalonic acid. Vinaconic acid



CAS Registry Number: 598-10-7

Molecular Formula: $C_5H_6O_4$
Molecular Weight: 130.1
Accurate Mass: 130.02661
Percentage Composition: C 46.16%; H 4.65%; O 49.19%
Physical Description: Prisms or needles ($CHCl_3$), prisms + $1H_2O$ (H_2O)
Melting Point: Mp 140°
Solubility: Sol. H_2O, org. solvs.
pKa Value: pK_{a1} 1.68; pK_{a2} 7.22 (25°)

Aldrich: 34341-2
Fluka: 29915

>>**Derivative:** Di-Me ester

CAS Registry Number: 6914-71-2
Molecular Formula: $C_7H_{10}O_4$
Molecular Weight: 158.154
Accurate Mass: 158.05791
Percentage Composition: C 53.16%; H 6.37%; O 40.47%
Boiling Point: Bp_{764} 198°
Aldrich: 41278-3

>>**Derivative:** Mono-Et ester

CAS Registry Number: 3697-66-3
Molecular Formula: $C_7H_{10}O_4$
Molecular Weight: 158.154
Accurate Mass: 158.05791
Percentage Composition: C 53.16%; H 6.37%; O 40.47%
Physical Description: Yellowish oil

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

CAS Registry Number: 1559-02-0
Molecular Formula: $C_9H_{14}O_4$
Molecular Weight: 186.207
Accurate Mass: 186.08921
Percentage Composition: C 58.05%; H 7.58%; O 34.37%
Physical Description: Liq.
Boiling Point: Bp_{22} 115°
Aldrich: 14771-0
Fluka: 29920

>>**Derivative:** Monoamide

CAS Registry Number: 6914-74-5
Molecular Formula: $C_5H_7NO_3$
Molecular Weight: 129.115
Accurate Mass: 129.042594
Percentage Composition: C 46.51%; H 5.46%; N 10.85%; O 37.17%
Physical Description: Cryst.
Melting Point: Mp 195°
Aldrich: 43951-7
Other: Oakwood 1454

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