>>**Entry Name: Dipropylpropanedioic acid,** 9CI
Synonym(s): Dipropylmalonic acid, 8CI. Heptane-4,4-dicarboxylic acid

CAS Registry Number: 1636-27-7
$(H_3CCH_2CH_2)_2C(COOH)_2$

Molecular Formula: $C_9H_{16}O_4$
Molecular Weight: 188.223
Accurate Mass: 188.10486
Percentage Composition: C 57.43%; H 8.57%; O 34.00%
Physical Description: Cryst. ($CHCl_3$)
Melting Point: Mp 161 dec.°
pKa Value: pK_{a1} 1.86; pK_{a2} 7.18 (25°, I 0.1 $NaClO_4$)

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

CAS Registry Number: 16644-05-6
Molecular Formula: $C_{11}H_{20}O_4$
Molecular Weight: 216.277
Accurate Mass: 216.13616
Percentage Composition: C 61.09%; H 9.32%; O 29.59%
Boiling Point: Bp_{20} 120.5°

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

Molecular Formula: $C_{11}H_{20}O_4$
Molecular Weight: 216.277
Accurate Mass: 216.13616
Percentage Composition: C 61.09%; H 9.32%; O 29.59%
Melting Point: Mp 49°
Boiling Point: Bp_{15} 156°

>>**Derivative:** Di-Et ester
Synonym(s): DEDnPM

CAS Registry Number: 6065-63-0
Molecular Formula: $C_{13}H_{24}O_4$
Molecular Weight: 244.33
Accurate Mass: 244.16746
Percentage Composition: C 63.91%; H 9.90%; O 26.19%
Boiling Point: Bp 249°
Rare Chemicals Library: S36050-3
Other: Hüls

>>**Derivative:** Dichloride

CAS Registry Number: 56945-52-9
Molecular Formula: $C_9H_{14}Cl_2O_2$
Molecular Weight: 225.114
Accurate Mass: 224.037084
Percentage Composition: C 48.02%; H 6.27%; Cl 31.50%; O 14.21%
Boiling Point: Bp 221-223°

>>**Derivative:** Diamide

Molecular Formula: $C_9H_{18}N_2O_2$
Molecular Weight: 186.253
Accurate Mass: 186.136828
Percentage Composition: C 58.04%; H 9.74%; N 15.04%; O 17.18%
Physical Description: Needles
Melting Point: Mp 214°
Solubility: Mod. sol. hot H_2O

References:

Fürth, H., *Monatsh. Chem.*, 1888, **9**, 318, *(synth)*
Vogel, A.I., *J.C.S.*, 1929, 1478, *(synth)*
Singh, R.K., *Synthesis*, 1985, 54, *(synth, pmr)*