



>>Entry Name: 2-Acetylpentanedioic acid, 9CI

Synonym(s): 2-Acetylglutaric acid

$\text{H}_3\text{CCOCH}(\text{COOH})\text{CH}_2\text{CH}_2\text{COOH}$

Molecular Formula: $\text{C}_7\text{H}_{10}\text{O}_5$

Molecular Weight: 174.153

Accurate Mass: 174.052825

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

General Statement: Acid not characterised

>>Derivative: Di-Et ester

CAS Registry Number: 1501-06-0

Molecular Formula: $\text{C}_{11}\text{H}_{18}\text{O}_5$

Molecular Weight: 230.26

Accurate Mass: 230.115425

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

Boiling Point: Bp 271-272° slight dec.. Bp₁₁ 162°

Aldrich: D8520-9

>>Derivative: Anhydride

Molecular Formula: $\text{C}_7\text{H}_8\text{O}_4$

Molecular Weight: 156.138

Accurate Mass: 156.04226

Percentage Composition: C 53.85%; H 5.16%; O 40.99%

Melting Point: Mp 102°

Boiling Point: Bp₁₂ 205°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 692A, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 583C, (*nmr*)

Org. Synth., 1934, **14**, 39, (*synth*)