



>>Entry Name: **2-Acetylpropanedioic acid**, 9CI

Synonym(s): Acetylmalonic acid. Acetone-1,1-dicarboxylic acid



Molecular Formula: $\text{C}_5\text{H}_6\text{O}_5$

Molecular Weight: 146.099

Accurate Mass: 146.021525

Percentage Composition: C 41.11%; H 4.14%; O 54.76%

Other Data: Unstable

>>Derivative: Di-Et ester

CAS Registry Number: 570-08-1

Molecular Formula: $\text{C}_9\text{H}_{14}\text{O}_5$

Molecular Weight: 202.207

Accurate Mass: 202.084125

Percentage Composition: C 53.46%; H 6.98%; O 39.56%

Boiling Point: Bp_{20} 125°

Solubility: Sol. dil. alkali

Refractive Index: n_D^{20} 1.4471

Other Data: Exists as mixt. of keto and enol forms

>>Derivative: Di-Et ester, 2,4-dinitrophenylhydrazone

Melting Point: Mp 147°

>>Derivative: Di-Et ester, semicarbazone

Melting Point: Mp 106-107°

>>Derivative: Dinitrile

Synonym(s): Acetylmalononitrile

CAS Registry Number: 1187-11-7

Molecular Formula: $\text{C}_5\text{H}_4\text{N}_2\text{O}$

Molecular Weight: 108.099

Accurate Mass: 108.032363

Percentage Composition: C 55.56%; H 3.73%; N 25.91%; O 14.80%

Melting Point: Mp 138-141°

Aldrich: 36094-5