



>>Entry Name: Acetylbutanedioic acid

Synonym(s): Acetylsuccinic acid. 3-Carboxy-4-oxopentanoic acid

Related CAS Registry Numbers(s): 10420-33-4

H3CCOCH(COOH)CH2COOH

Molecular Formula: C6H8O5

Molecular Weight: 160.126

Accurate Mass: 160.037175

Percentage Composition: C 45.01%; H 5.04%; O 49.96%

>>Variant: (±)-form

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Accurate Mass: 160.037175

Percentage Composition: C 45.01%; H 5.04%; O 49.96%

pKa Value: pK_{a1} 2.86; pK_{a2} 4.57 (25°)

>>Derivative: Di-Me ester

Synonym(s): Dimethyl acetylsuccinate, 8CI

CAS Registry Number: 121952-83-8

Molecular Formula: C8H12O5

Molecular Weight: 188.18

Accurate Mass: 188.068475

Percentage Composition: C 51.06%; H 6.43%; O 42.51%

Melting Point: Mp 33°

Boiling Point: Bp₁₂ 129-134°

>>Derivative: Di-Me ester, phenylhydrazone

Physical Description: Cryst.

Melting Point: Mp 198-201°

>>Derivative: Di-Et ester

CAS Registry Number: 1115-30-6

Physical Description: Liq.

Boiling Point: Bp 254-256° (dec.). Bp₁₅ 140-142°

Aldrich: D8540-3