

## Product Data Sheet

Product Name: Diethyl 1,3-acetonedicarboxylate

Cat. No.: GD08586

### Chemical Properties

Cas. No. 105-50-0

Formula C<sub>9</sub>H<sub>14</sub>O<sub>5</sub>

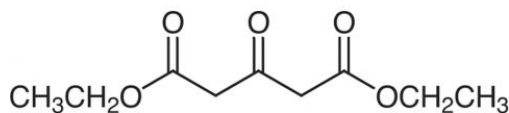
M.Wt 202.2

Solubility DMSO : ≥ 100 mg/mL (494.54 mM) Storage 2-8°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure



### Background

Diethyl 3-oxopentanedioate is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

Synthesis of 1-substituted 4-ethoxycarbonyl-5-(ethoxycarbonylmethyl) pyrazoles Diethyl acetone-1, 3-dicarboxylate reacts with N, N-dimethylformamide dimethyl acetal (DMFDMA) in ethanol at room temperature. Unexpected product dichotomy is produced in the Biginelli-like condensation of 2-hydroxybenzaldehyde with urea or thiourea and dimethyl or diethyl acetone-1,3-dicarboxylate, respectively, as active methylene components. Ethyl 2-amino-4-(2-ethoxy-2-oxoethyl)thiazole-5-carboxylate (2a), prepared from diethylacetone-1,3-dicarboxylate, sulfur chloride and thiourea.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Synthesis of diethyl 2,2-diethyl-3,5-dioxopimelate by the reaction of ethyl 3-chloro-3-oxo-2, 2-dimethylpropionate with diethyl acetone-1,3-dicarboxylate.

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