
Product Data Sheet

Product Name: Ethyl potassium malonate

Cat. No.: GC25389

Chemical Properties

Cas. No. 6148-64-7

Formula C₅H₇KO₄

M.Wt 170.2

Solubility H₂O : 100 mg/mL (587.51 mM; Need ultrasonic) Storage Store at -20°C

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

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

Structure

Background

Ethyl potassium malonate (Potassium 3-ethoxy-3-oxopropanoate) is used as a competitive inhibitor of the enzyme succinate dehydrogenase. It acts as a precursor to produce (trimethylsilyl)ethyl malonate, which is utilized to prepare beta-ketoesters by acylation and serves as an intermediate for the preparation of ethyl tert-butyl malonate.

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

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