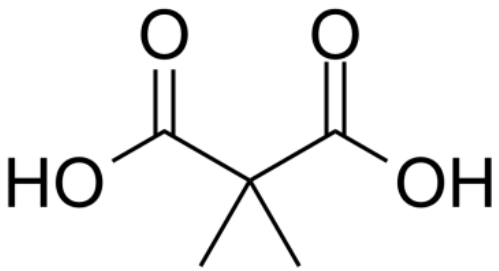
# Product Data Sheet

Product Name: Dimethylmalonic acid
Cat. No.: GC60779

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 595-46-0 | | |
| SMILES | O=C(O)C(C)(C)C(O)=O | | |
| Formula | $C_5H_8O_4$ | M.Wt | 132.11 |
| Solubility | DMSO : 100 mg/mL (756.94 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

Dimethylmalonic acid is a short-chain dicarboxylic acid in human serum. Dimethylmalonic acid is also a volatile organic compound detected in alveolar breath[1].

[1]. David A. Evans, et al. An Improved Procedure for the Preparation of 2,2-Bis[2-[4(S)- tert-butyl-

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1,3-oxazolinyl]]propane [(S,S)-tert-Butylbis(oxazoline)] and Derived Copper(II) Complexes. J. Org. Chem. 1998, 63, 13, 4541-4544.