

Product Data Sheet

Product Name: Myristic Acid methyl ester

Cat. No.: GC41367

Chemical Properties

Cas. No. 124-10-7

SMILES CCCCCCCCCCCCC(OC)=O

Formula C₁₅H₃₀O₂

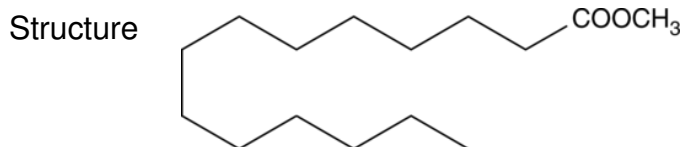
M.Wt 242.4

Solubility DMF: 30 mg/ml, DMSO: 20 mg/ml, Ethanol: 30 mg/ml

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.



Background

Myristic acid methyl ester is an esterified version of the free acid, which is less water soluble but more amenable for the formulation of myristate-containing diets and dietary supplements. Myristic acid is a 14-carbon saturated (14:0) fatty acid. In vivo, it is commonly added covalently to the N-terminus of proteins in a co-translational process termed N-myristoylation. In addition, there are examples where N-myristoylation occurs post-translationally, when a hidden myristoylation pattern is exposed.

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

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