

Product Data Sheet

Product Name: Nonanoic Acid methyl ester

Cat. No.: GC40760

Chemical Properties

Cas. No. 1731-84-6

SMILES O=C(CCCCCCCC)OC

Formula C₁₀H₂₀O₂

M.Wt 172.3

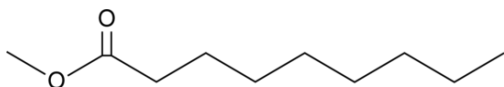
Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 10 mg/ml, PBS (pH 7.2): 0.1 mg/ml

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.

Structure



Background

Nonanoic acid methyl ester is an esterified form of nonanoic acid. It is found as a volatile component following thermal oxidation of conjugated linoleic acid methyl ester but not linoleic acid methyl ester. It is cytotoxic to A549 lung carcinoma cells with an LC₅₀ value of 104.09 µg/ml. Nonanoic acid methyl ester enhances the penetration of minoxidil into isolated hamster ventral ear skin when applied at a 10% concentration ex vivo. It is a substrate for the E. coli alkane hydroxylase system (AlkBGT), which oxidizes nonanoic acid methyl ester to produce 9-hydroxy methyl nonanoate, an ω-hydroxy fatty acid ester that can be used in the production of sustainable polymers.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA