

Product Data Sheet

Product Name: Trimethylamine N-oxide

Cat. No.: GC40928

Chemical Properties

Cas. No. 1184-78-7

SMILES C[N](C)(C)=O

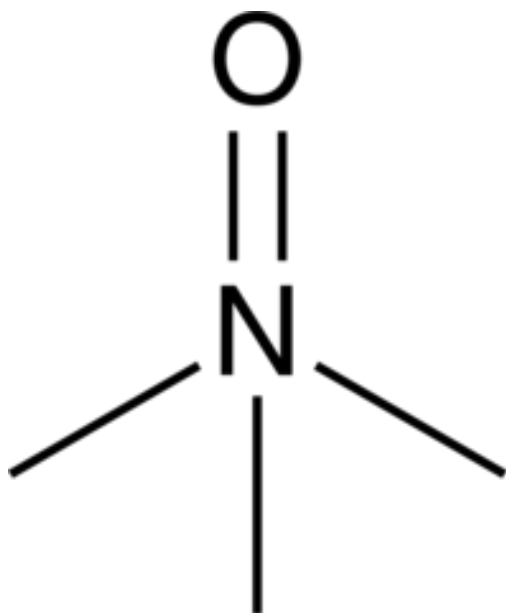
Formula C3H9NO M.Wt 75.1

Solubility DMF: 1 mg/ml, DMSO: 1 mg/ml, Ethanol: 25 mg/ml, PBS (pH 7.2): 10 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 sizes: ship with RT, or blue ice upon request.

Structure



Background

Trimethylamine N-oxide (TMAO) is a product of the oxidation of TMA by flavin-containing monooxygenase 3 in the liver. TMAO levels predict risk for atherosclerosis and are elevated in patients

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

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with chronic kidney disease and obesity. TMAO levels are decreased in ulcerative colitis. TMAO increases atherosclerosis in ApoE^{-/-} mice, suggesting that TMAO can directly induce cardiovascular disease. The biosynthesis of TMA is dependent on gut bacteria, providing a link between the biome and cardiovascular disease.

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