

Product Data Sheet

Product Name: N-Nitroso Sarcosine

Cat. No.: GC49350

Chemical Properties

Cas. No. 13256-22-9

SMILES O=NN(CC(O)=O)C

Formula C3H6N2O3

M.Wt 118.1

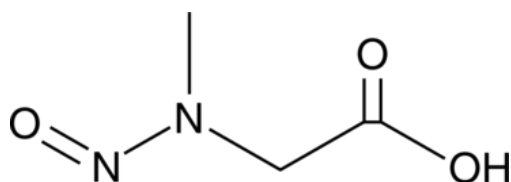
Solubility DMF: 15 mg/ml, DMSO: 10 mg/ml, Ethanol: 30 mg/ml, PBS (pH 7.2): 5 mg/ml

Storage -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

N-Nitroso sarcosine is a carcinogen and nitrosation product of sarcosine that has been found in cured meat products.^{1,2} *In vivo*, N-nitroso sarcosine (225 mg/kg) induces the formation of metastatic liver carcinomas in mice.²

1. Janzowski, C., Eisenbrand, G., and Preussmann, R. Occurrence of N-nitrosamino acids in cured meat products and their effect on formation of N-nitrosamines during heating. *Food Cosmet. Toxicol.* 16(4):343-348 (1978)
 2. Wogan, G.N., Paglialunga, S., Archer, M.C., et al. Carcinogenicity of nitrosation products of ephedrine, sarcosine, folic acid, and creatinine. *Cancer Res.* 35(8):1981-1984 (1975)

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

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