



LKT Laboratories, Inc.

S-(N-Methylthiocarbamoyl)-L-cysteine

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Product Information

Product ID M1975

CAS No.

Chemical Name S-(N-Methylthiocarbamoyl)-L-cysteine

Synonym Methylisothiocyanate-L-cysteine

Formula $C_5H_{10}N_2O_2S_2$

Formula Wt. 194.28

Melting Point

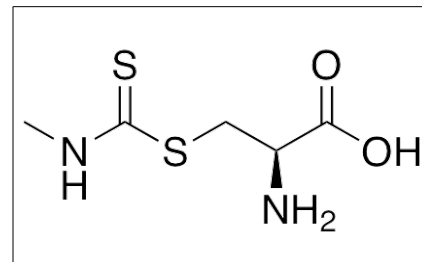
Purity $\geq 98\%$

Solubility

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description S-(N-Methylthiocarbamoyl)-L-cysteine (MITC) is a conjugate of methylisothiocyanate and cysteine. MITC is a pesticide typically used to fumigate wheat and other grain crops, killing pests such as grain beetles and weevils. MITC also exhibits anti-parasitic activity, inhibiting the hatch of nematodes from species of *Heterodera* and decreasing the population density of species of *Meloidogyne*. This compound inhibits mitochondrial aldehyde dehydrogenase in the liver, increasing aldehyde levels in blood and brain in vivo. Additionally, MITC displays genotoxic potential, inducing lipid peroxidation-mediated DNA damage at high doses.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M1975	10 mg	\$83.80
M1975	25 mg	\$157.00
M1975	100 mg	\$471.00

References

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.