

Product Data Sheet

Product Name: Mechlorethamine HCl

Cat. No.: GC17619

Chemical Properties

Cas. No. 55-86-7

Chemical Name 2-chloro-N-(2-chloroethyl)-N-methylethanamine;hydrochloride

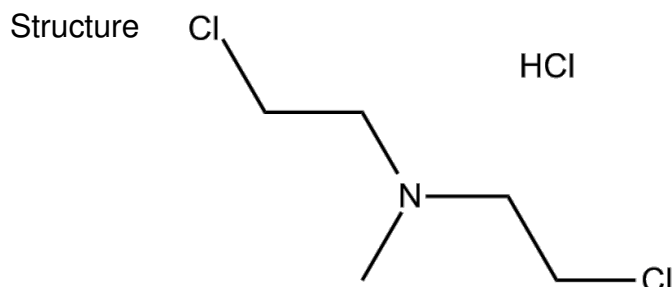
SMILES CN(CCCl)CCCl.Cl

Formula $C_5H_{11}Cl_2N.HCl$ M.Wt 192.51

Solubility $\geq 9.65\text{mg/mL}$ in DMSO 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

Chlormethine hydrochloride is a vesicant and necrotizing irritant destructive to mucous membranes. The hydrochloride is used as an antineoplastic in Hodgkin's disease and lymphomas. Target: Chlormethine is a nitrogen mustard. It is the prototype of alkylating agents, a group of anticancer chemotherapeutic drugs. It works by binding to DNA, crosslinking two strands and preventing cell duplication. It binds to the N7 nitrogen on the DNA base guanine.

References:

[1]. Cao Z, et al. Effect of brentuximab vedotin combined with chlormethine hydrochloride on the treatment of 6 patients with relapsed and refractory Hodgkin lymphoma. Zhonghua Xue Ye Xue Za

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

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