Product Data Sheet

Product Name:	Trichlormethine hydrochloride (Tris(2-chloroethyl)amine hydrochloride)
Cat. No.:	GC33069

Chemical Properties

Cas. No.	817-09-4		
SMILES	ClCCN(CCCl)CCCl.Cl		
Formula	$C_6H_{13}Cl_4N$	M.Wt	240.99
Solubility	DMSO : 100 mg/mL (414.95 mM);Water : 50 mg/mL (207.48 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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

Trichlormethine hydrochloride is a cytostatic agent in the treatment of cancer and arthritis; shows carcinogenic effects to humans.

Trichlormethine could be detected at a surface coverage of 0.01 monolayer, which corresponds to 20 ppm (mass/mass) for a soil having a surface area of 2.2 m2/g. TEA, the exhaustive hydrolysis product of trichlormethine, is detected at a surface coverage of 0.001 monolayer, which corresponds to 0.86 ppm[1].

Trichlormethine hydrochloride carries a genetic risk for the postmeiotic stages of spermatogenesis and is responsible for interference in the morphology of sperm heads through its action on spermatocytes. The toxic effects of trichlormethine hydrochloride are found to influence the body weight of mice, to reduce the relative weight of the testes, to damage spermatogenesis in the seminiferous tubules, to be responsible for an appearance of multinucleate cells in the epididymides, and for an increased rate of abnormality of the heads of fully mature spermatozoa[2].

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[1]. Gresham GL, et al. Identification of the nitrogen-based blister agents bis(2-chloroethyl)methylamine (HN-2) and tris(2-chloroethyl)amine (HN-3) and their hydrolysis products on soil using ion trap secondary ion mass spectrometry. J Mass Spectrom. 2000 Dec;35(12):1460-9. [2]. S?kora I, et al. Trichlormethine hydrochloride and correlation of its mutagenic and toxic effects on male germ cells in mice. Mutat Res. 1992 Apr;266(2):291-7.

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