>>**Entry Name: Tris(2-chloroethyl)amine**
Synonym(s): 2-Chloro-*N*,*N*-bis(2-chloroethyl)ethanamine, 9CI. 2,2',2"-Trichlorotriethylamine, 8CI. Trimustine, BAN. **Trichlormethine,** INN. Nitrogen Lost. NSC 30211

CAS Registry Number: 555-77-1

$(ClCH_2CH_2)_3N$

Molecular Formula: $C_6H_{12}Cl_3N$
Molecular Weight: 204.526
Accurate Mass: 203.00353
Percentage Composition: C 35.24%; H 5.91%; Cl 52.00%; N 6.85%
Use/Importance: Chemical warfare agent, biological alkylating agent with mutagenic and cytotoxic activity. Antineoplastic agent
Physical Description: Mobile liq. with faint odour of fish and soap
Boiling Point: Bp_2 98°
Refractive Index: n_D^{25} 1.4925
Calculated Log P Data: Log P 1.66 (calc)
Hazard & Toxicity: Eye irritant, vesicant. LD_{50} (rat, orl) 5 mg/kg. LD_{50} (rat, skn) 2 mg/kg. Exp. carcinogen

>>**Derivative:** Hydrochloride
Synonym(s): Lekamin. Trillekamin. Trimitan. SK 100. TS 160

CAS Registry Number: 817-09-4
Physical Description: Cryst. (EtOH/Me_2CO)
Melting Point: Mp 131-132.2°
Hazard & Toxicity: Adverse systemic effects reported when used therapeutically. LD_{50} (rat, ipr) 0.75 mg/kg. Exp. carcinogen. Exp. reprod. effects

Aldrich: T8530-8

>>**Derivative:** *N*-Oxide

Molecular Formula: $C_6H_{12}Cl_3NO$
Molecular Weight: 220.525
Accurate Mass: 218.998445
Percentage Composition: C 32.68%; H 5.48%; Cl 48.23%; N 6.35%; O 7.26%
Physical Description: Cryst. (Me_2CO) (as hydrochloride)
Melting Point: Mp 91-92° (hydrochloride)

References:

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Ward, K., *J.A.C.S.*, 1935, **57**, 914, *(synth)*
Wilson, E. *et al.*, *J.A.C.S.*, 1951, **73**, 3635, *(synth)*
Kimura, E. *et al.*, *Inorg. Chem.*, 1970, **9**, 1183, *(synth)*
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