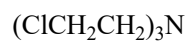




>>Entry Name: Tris(2-chloroethyl)amine

Synonym(s): 2-Chloro-*N,N*-bis(2-chloroethyl)ethanamine, 9Cl. 2,2',2''-Trichlorotriethylamine, 8Cl. Trimustine, BAN. **Trichlormethine**, INN. Nitrogen Lost. NSC 30211

CAS Registry Number: 555-77-1



Molecular Formula: C₆H₁₂Cl₃N

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: Bp₂ 98°

Refractive Index: n_D²⁵ 1.4925

Calculated Log P Data: Log P 1.66 (calc)

Hazard & Toxicity: Eye irritant, vesicant. LD₅₀ (rat, orl) 5 mg/kg. LD₅₀ (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/Me₂CO)

Melting Point: Mp 131-132.2°

Hazard & Toxicity: Adverse systemic effects reported when used therapeutically. LD₅₀ (rat, ipr) 0.75 mg/kg. Exp. carcinogen. Exp. reprod. effects

Aldrich: T8530-8

>>Derivative: *N*-Oxide

Molecular Formula: C₆H₁₂Cl₃NO

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. (Me₂CO) (as hydrochloride)

Melting Point: Mp 91-92° (hydrochloride)

References:

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