

Chemical Information:

Name: Nitrogen mustard hydrochloride
CAS No.: 55-86-7 Supplier: Sigma-Aldrich
Tox21_ID No.: Tox21_200638 Lot No.: 09101JD
NTP_CID No.: 1063 MW: 192.51 g/mol

Date of Analysis: 05 November 2009

Purity and Identity Results:

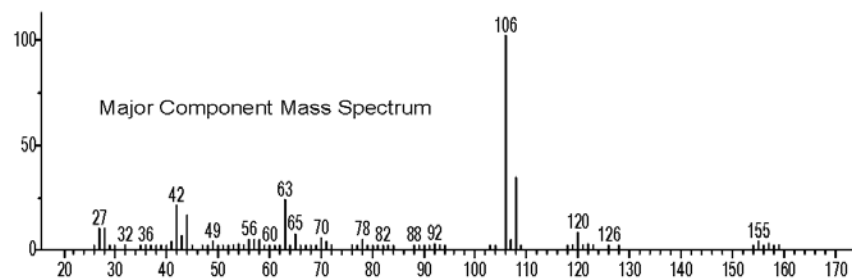
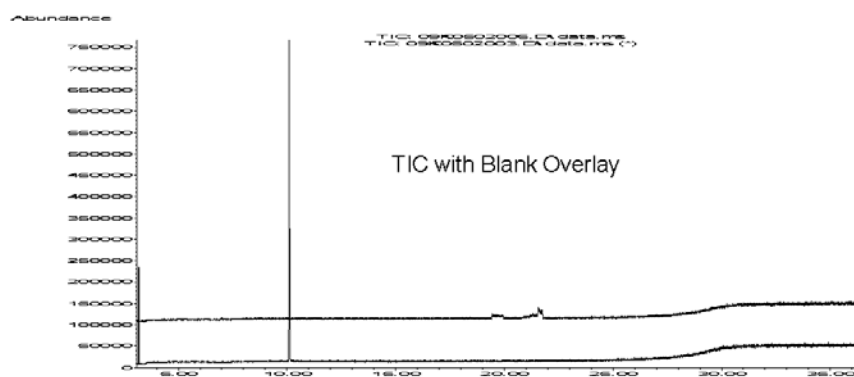
Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Nitrogen mustard hydrochloride ^b	10.10	100.00

^a Peaks comprising $\geq 0.5\%$ of total area.

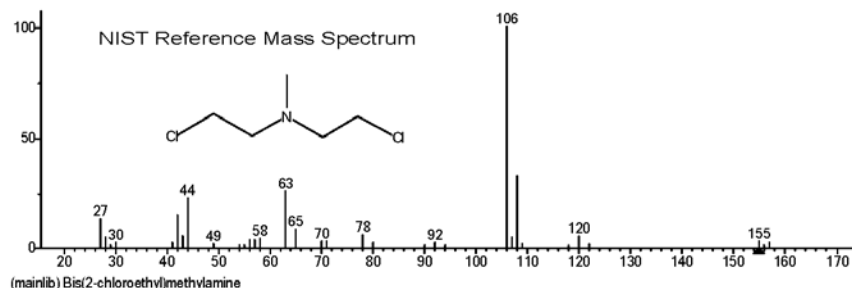
^b Observed as nitrogen mustard, as HCl dissociates and is not detected.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane (~ 1 mg/mL)
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25- μ m film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	35°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 7 min
Source Temperature	230°C
Auxiliary Temperature	150°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μ L / Split (100:1)
Data Analysis Software	MSD ChemStation, v D.03.00.SP1; NIST Library v 2.0f, build 10/08/2008



(Text File) Scan 1286 (10.102 min): 09K0502006.D\data.ms



(mainlib) Bis(2-chloroethyl)methylamine