

Chemical Information:

Name:	1-Piperazineethanamine		
CAS No.:	140-31-8	Supplier:	Sigma-Aldrich
Tox21_ID No.:	Tox21_202230	Lot No.:	MKBB2215
NTP CID No.:	2379	MW:	129.20 g/mol

Date of Analysis: 15 December 2009

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
unknown	1.10	0.55
unknown	5.40	2.63
1-Piperazineethanamine	13.05	96.02
unknown	15.01	0.52

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

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Not applicable; analysis of neat chemical
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25-µm film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	10°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 7 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 µL / Split (480:1)
Data Analysis Software	Xcalibur, ver 1.2 and NIST Library ver 2.0f, build 10/08/2008

