

Chemical Information:

Name: 2-Nitroethanol
CAS No.: 625-48-9
Tox21_ID No.: Tox21_200622
NTP_CID No.: 277

Supplier: Sigma-Aldrich
Lot No.: 03728JC
MW: 91.07 g/mol

Date of Analysis: 21 August 2007

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
DMSO	5.63	Not applicable
2-Nitroethanol	5.95	97.11
unknown	9.10	0.87
unknown	16.04	1.25

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

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane (100 mM in DMSO, diluted 1/1000 with dichloromethane)
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	35°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 2 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	25 – 200 amu
Injector Temperature	250°C
Injection Volume / Mode	2 µL / Splitless
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999

