

# Chemical Information:

Name: 1,2-Dimethyl-4-nitrobenzene  
CAS No.: 99-51-4 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_201332 Lot No.: 01501PR  
NTP\_CID No.: 35 MW: 151.16 g/mol

Date of Analysis: 16 February 2007

# Purity and Identity Results:

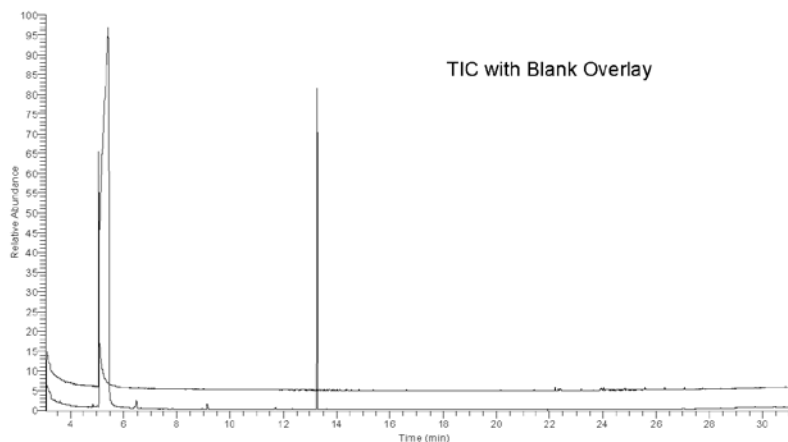
Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
DMSO	5.44	Not applicable
1,2-Dimethyl-4-nitrobenzene	13.29	98.85

<sup>a</sup> Peaks comprising ≥ 0.5% of total area.

# GC/MS Instrument Parameters:

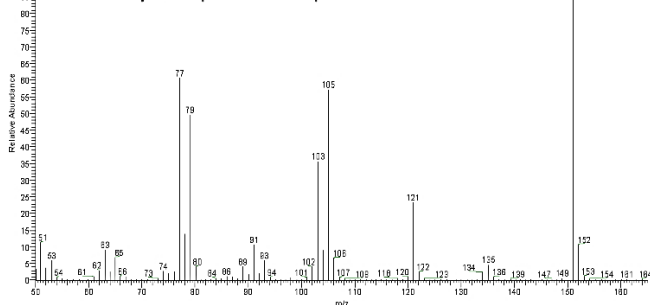
Instrument / Ionization	ThermoFinnigan TraceGC with ThermoFinnigan TraceMS / Electron Impact
Solvent	Dichloromethane (50 mM in DMSO, diluted 1/500 with dichloromethane)
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25-μm film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	35°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 2 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	50 – 250 amu
Injector Temperature	280°C
Injection Volume / Mode	2 μL / Splitless
Run Time	31.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999

RT: 3.05 - 31.49 SM 36



07/11/05#1231 RT: 13.26 AV: 1 SB: 2 14.56, 15.64 NL: 643E5  
T: 30.0] • C10 des250.00 Full ms [62.00-250.00]

# Major Component Mass Spectrum



# NIST Reference Mass Spectrum

