

**Chemical Information:**

Name: 1,5-Dinitronaphthalene  
CAS No.: 605-71-0 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_200953 Lot No.: 305743/1  
NTP\_CID No.: 63 MW: 218.17 g/mol

Date of Analysis: 04 December 2007

**Purity and Identity Results:**

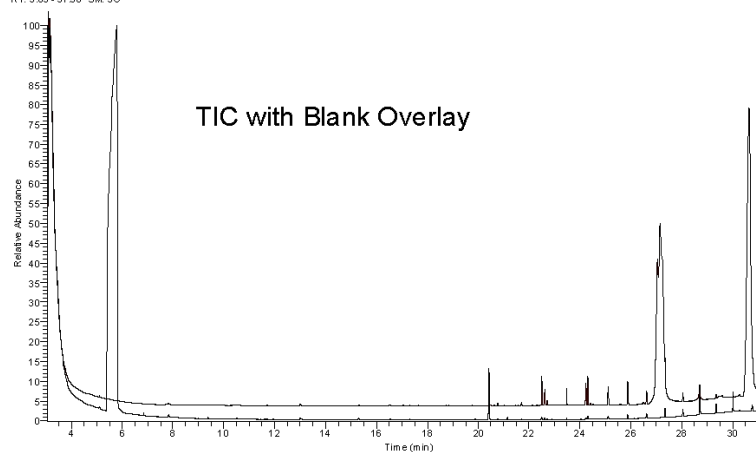
Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
DMSO	5.79	Not applicable
1,5-Dinitronaphthalene	20.43	95.82
unknown	21.16	4.18

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

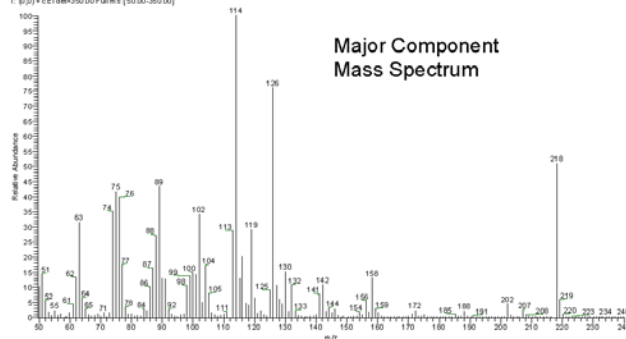
**GC/MS Instrument Parameters:**

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	50 – 350 amu
Injector Temperature	250°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 - 31.50 SM: 30



070403 #2091 RT: 20.43 AU: 1 NL: 4.80E5  
T: 6(5) = c1e+05-350.00 Pulses [50.00-350.00]



NIST Reference Mass Spectrum

