

### Chemical Information:

Name: 2,4-Dinitrotoluene  
CAS No.: 121-14-2  
Tox21\_ID No.: Tox21\_201784  
NTP\_CID No.: 176

Supplier: Sigma-Aldrich  
Lot No.: 18219TA  
MW: 182.13 g/mol

Date of Analysis: 15 June 2009

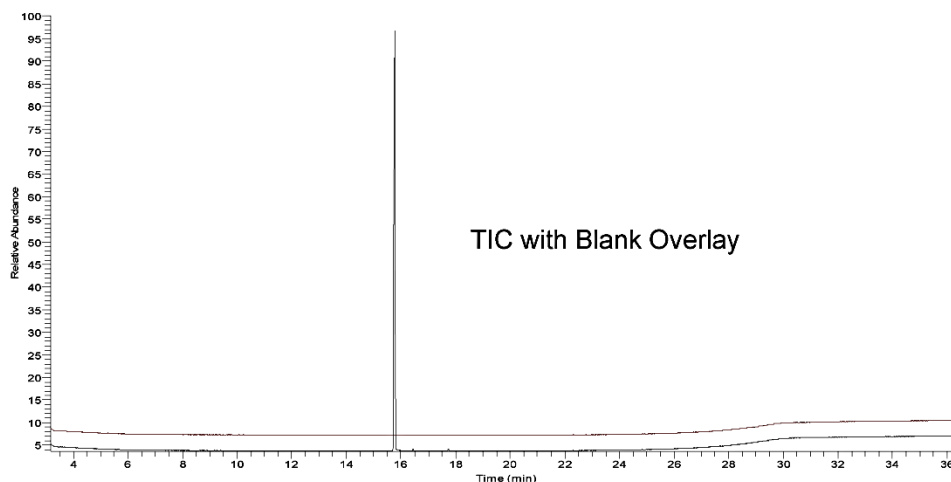
### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
2,4-Dinitrotoluene	15.77	100.00

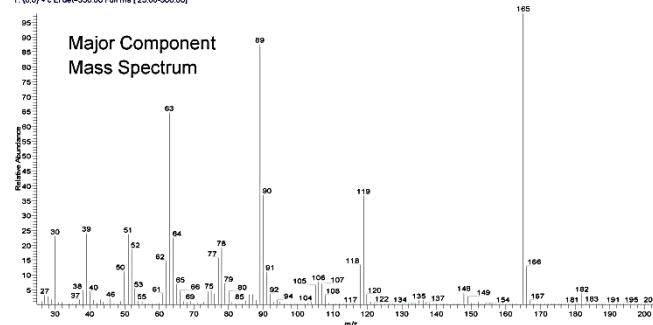
<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area.

### GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Chloroform
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25- $\mu$ 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	250°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 $\mu$ L / Split (100:1)
Run Time	36.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0, build 7/23/2008



09/18/08 #1489 RT: 15.77 RI: 1.08 28 15.59-15.66, 16.14-16.27 NL: 3.2858  
T: (0.0) \* e E1 94+350.00 Full ms [25.00-500.00]



### NIST Reference Mass Spectrum

