

### Chemical Information:

Name: N,N-Diethyl-p-phenylenediamine  
CAS No.: 93-05-0 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_200888 Lot No.: 10018CD  
NTP\_CID No.: 1007 MW: 164.25 g/mol

Date of Analysis: 20 January 2009

### Purity and Identity Results:

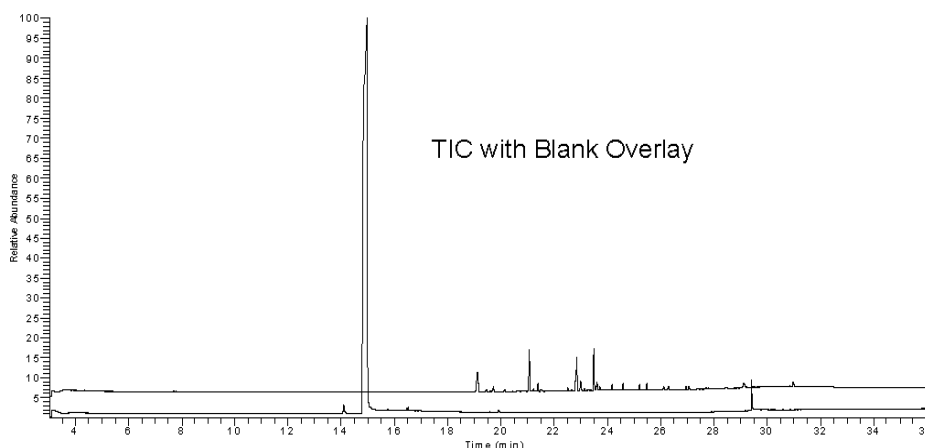
| Peak Identity                  | Retention Time (min) | Purity (% Total Area) <sup>a</sup> |
|--------------------------------|----------------------|------------------------------------|
| unknown                        | 14.09                | 0.69                               |
| N,N-Diethyl-p-phenylenediamine | 14.99                | 96.95                              |
| unknown                        | 29.41                | 1.43                               |

<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                 | Dichloromethane  |
| 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 – 350 amu   |
| Injector Temperature    | 250°C  |
| Injection Volume / Mode | 1 $\mu$ L / Split (10:1)   |
| Run Time                | 36.5 minutes   |
| Data Analysis Software  | Xcalibur, v 1.2 and NIST Library v 2.0, build 7/23/2008                |

RT: 3.01 - 36.50 SM: 3G



036307009 #1412 RT: 14.77 AU: 1.50: 2.1475, 15.01 NL: 1.1000  
T: (0.0) = 0.01 (0.0) = 0.01 (0.0) = 0.01 (0.0) = 0.01

