

### Chemical Information:

Name: N,N'-Diphenyl-p-phenylenediamine  
CAS No.: 74-31-7 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_200354 Lot No.: 04304BA  
NTP\_CID No.: 1017 MW: 260.33 g/mol

Date of Analysis: 26 June 2007

### Purity and Identity Results:

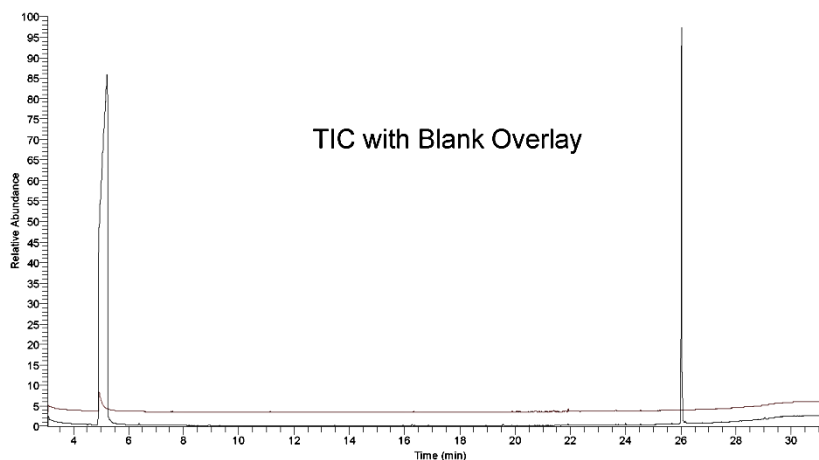
Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
DMSO	5.23	Not applicable
N,N'-Diphenyl-p-phenylenediamine	26.03	98.13

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

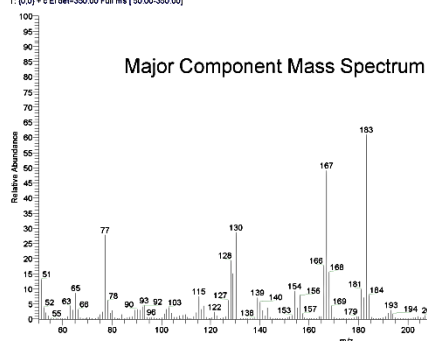
### GC/MS Instrument Parameters:

Instrument / Ionization	ThermoFinnigan TraceGC with ThermoFinnigan TraceMS / 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- $\mu$ 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 2 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	50 – 350 amu
Injector Temperature	250°C
Injection Volume / Mode	2 $\mu$ L / Splitless
Run Time	31.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999

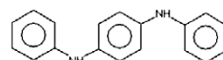
RT: 3.05 - 31.49 SM: 3G



07/08/10 #2762 RT: 26.02 AV: 1 NL: 4.1256  
T: (0.0) - c E1 det-350.00 Full ms [50.00-350.00]



Major Component Mass Spectrum



NIST Reference Mass Spectrum

