

# Chemical Information:

Name: N-Nitrosodiphenylamine  
CAS No.: 86-30-6 Supplier: Supelco  
Tox21\_ID No.: Tox21\_201457 Lot No.: LB73370  
NTP\_CID No.: 1073 MW: 198.22 g/mol

Date of Analysis: 26 March 2010

## Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
N-Nitrosodiphenylamine <sup>b</sup>	17.47	100.00

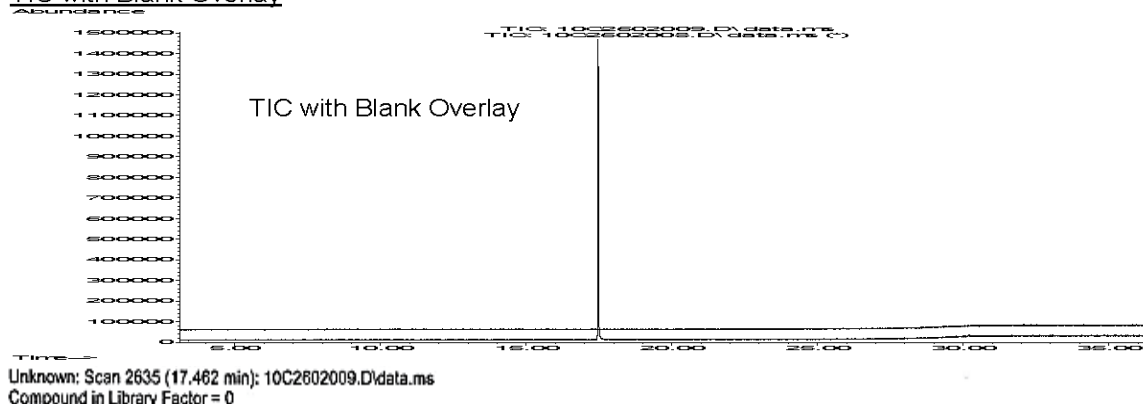
<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area.

<sup>b</sup> Observed as diphenylamine; N-nitrosodiphenylamine decomposes to produce diphenylamine at relatively low injection port or column temperatures (*Environ. Sci. Technol.* **1990**, 24, 1748)

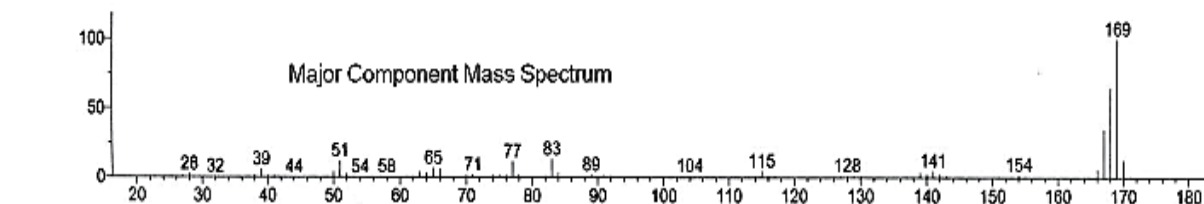
## GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Acetonitrile (~ 1 mg/mL)
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	230°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 $\mu$ L / Split (100:1)
Data Analysis Software	MSD ChemStation, v D.03.00.SP1; NIST Library v 2.0f, build 7/23/2008

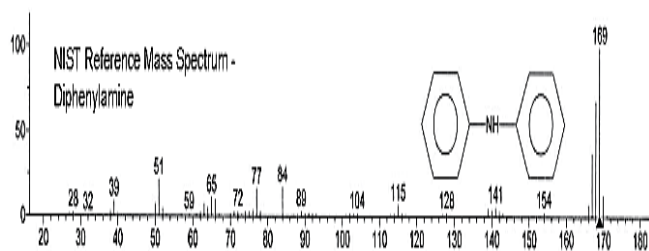
## TIC with Blank Overlay



## Major Component Mass Spectrum



## NIST Reference Mass Spectrum - Diphenylamine



## NIST Reference Mass Spectrum - N-Nitrosodiphenylamine

