

# Chemical Information:

Name: 6-Nitrobenzimidazole

Date of Analysis: 19 May 2010

CAS No.: 94-52-0

Supplier: Acros Organics

Tox21\_ID No.: Tox21\_201684

Lot No.: A0171494

NTP\_CID No.: 420

MW: 163.13 g/mol

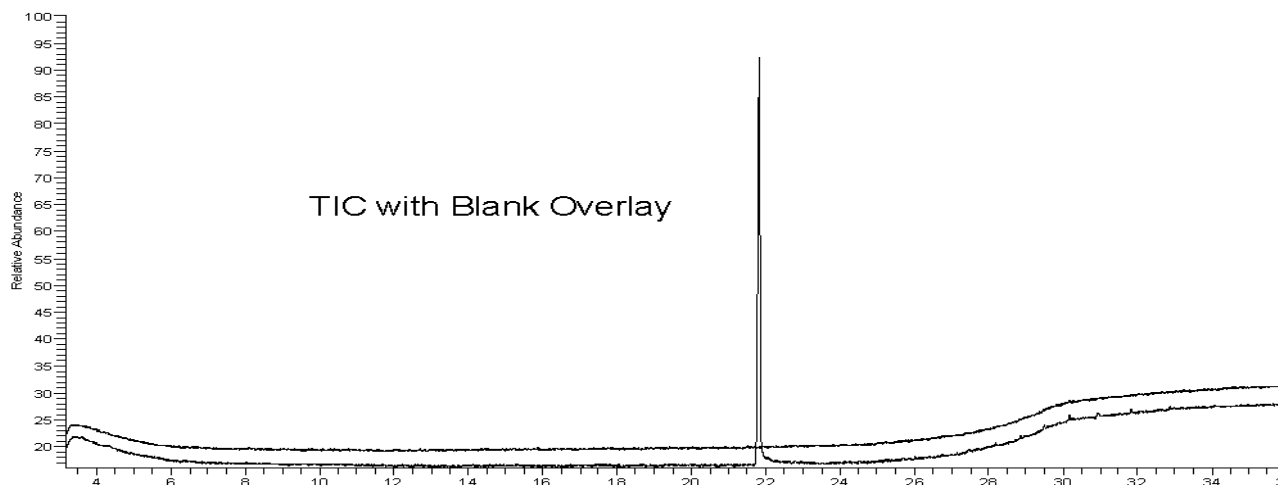
## Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
6-Nitrobenzimidazole	21.82	100.00

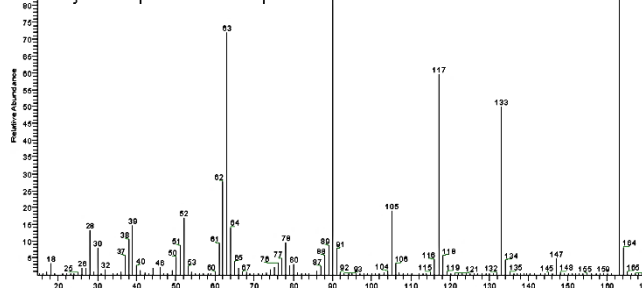
<sup>a</sup> Peaks comprising ≥ 0.5% of total area.

## GC/MS Instrument Parameters:

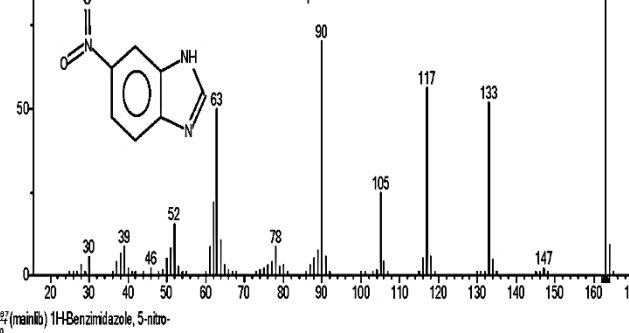
Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25-μm film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	35°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 7 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	15 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μL / Split (10:1)
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0f, build 10/08/2008


10610711 #2220 RT: 21.82 AU: 1 SB: 9 21.85-21.70, 22.10-22.16 NL: 1.54E5  
T: (0.0) + (-0.0) (see 350.00 Full ms) (15.00-000.00)

Major Component Mass Spectrum



NIST Reference Mass Spectrum



(mzlib) 1H-Benzimidazole, 5-nitro-