

### Chemical Information:

Name: 1,4-Dithiane  
CAS No.: 505-29-3  
Tox21\_ID No.: Tox21\_200405  
NTP\_CID No.: 2167

Supplier: Sigma-Aldrich  
Lot No.: 11024ME  
MW: 120.24 g/mol

Date of Analysis: 12 August 2009

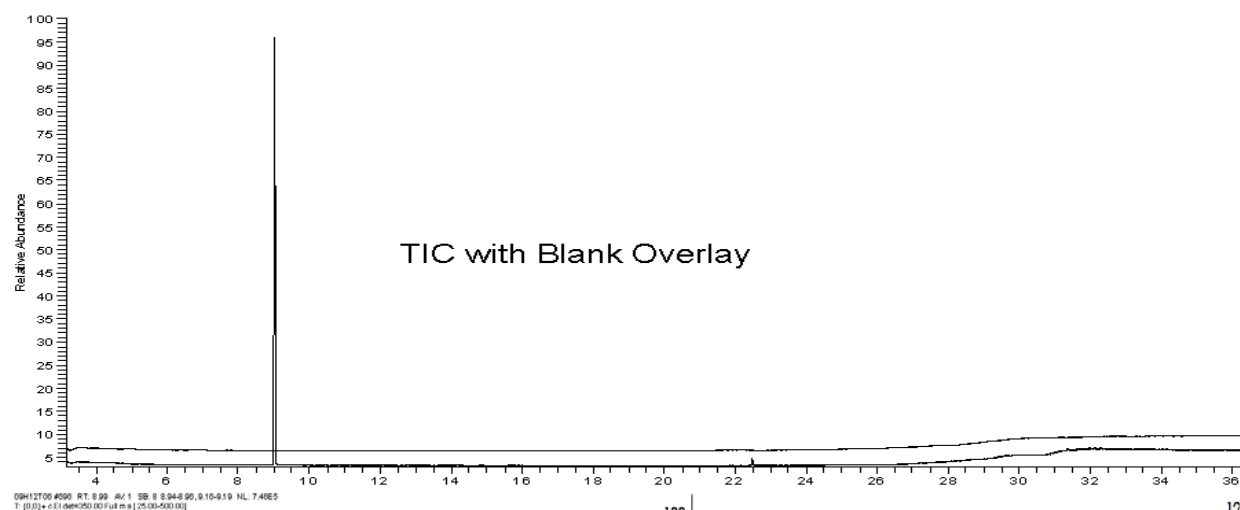
### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
1,4-Dithiane	9.02	98.24
unknown	22.47	1.76

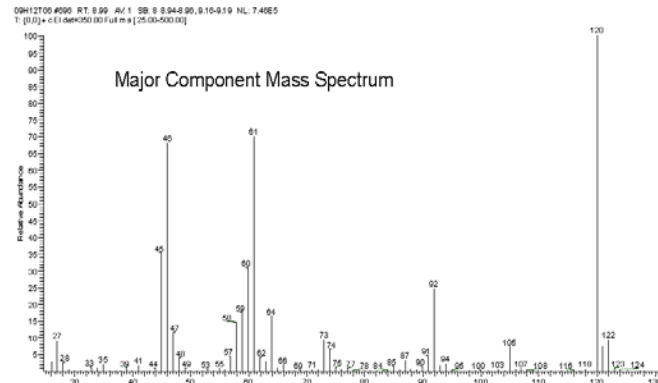
<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area.

### GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Ethanol
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 2.0f, build 10/08/2008



09H12709.4095 RT: 9.99 AU: 1 SB: 8.894-8.90, 9.10-9.19 NL: 7.48E5  
1: [0.0] s c:\1\dep\250103\full.ms [25.00-500.00]



### NIST Reference Mass Spectrum

