

### Chemical Information:

Name: 1,2-Epoxy-3-butene  
CAS No.: 930-22-3  
Tox21\_ID No.: Tox21\_200871  
NTP\_CID No.: 36

Supplier: Sigma-Aldrich  
Lot No.: 06919ME  
MW: 70.09 g/mol

Date of Analysis: 28 September 2010

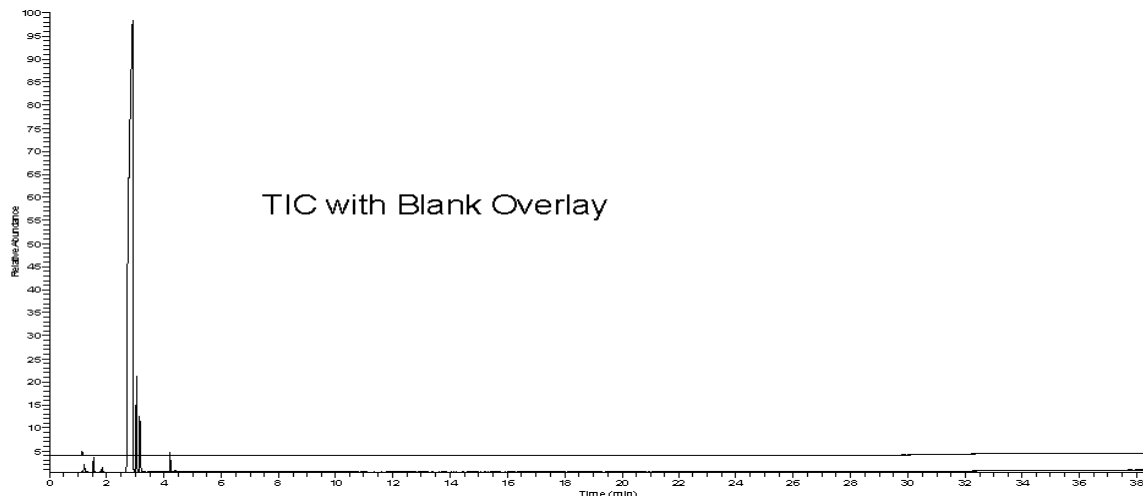
### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Unknown	1.53	0.63
1,2-Epoxy-3-butene	2.91	96.55
Unknown	3.16	1.53
Unknown	4.20	0.64

<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	Not applicable
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	10°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 7 min
Source Temperature	200°C
Auxiliary Temperature	200°C
Scan Range	15 – 500 amu
Injector Temperature	200°C
Injection Volume / Mode	1 $\mu$ L / Split (420:1)
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0f, build 10/08/2008



1028700 4293 RT: 2.89 AU: 1 SB: T 2.89-2.89, 2.89-2.89 NL: 4.84E5  
T: (0.0) = +EI (4e+200.00 Full MS) [15.00-500.00]

