

### Chemical Information:

Name: Benzene, 1-chloro-2-(chloromethyl)-  
CAS No.: 611-19-8 Supplier: Sigma Aldrich  
Tox21\_ID No.: Tox21\_201089 Lot No.: 00306KH  
NTP\_CID No.: 2848 MW: 161.03 g/mol

Date of Analysis: 13 August 2015

### Purity and Identity Results:

| Peak Identity                       | Retention Time (min) | Purity (% Total Area) <sup>a</sup> |
|-------------------------------------|----------------------|------------------------------------|
| Ethanol                             | 1.50                 | Not applicable                     |
| Benzene, 1-chloro-2-(chloromethyl)- | 17.48                | 99.78                              |

<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 (~ 400 µg/mL)                                                                                                             |
| Column                  | Restek Rtx-5MS with Integra-Guard, 30 m x 0.25 mm ID, 1-µm film thickness                                                         |
| Carrier Gas             | Helium at 2 mL/min                                                                                                                |
| Oven Program            | 50°C, hold 2 min; ramp @ 5°C/min to 320°C, hold 5 min                                                                             |
| Source Temperature      | 230°C                                                                                                                             |
| Auxiliary Temperature   | 250°C                                                                                                                             |
| Scan Range              | 40 – 500 amu                                                                                                                      |
| Injector Temperature    | 250°C                                                                                                                             |
| Injection Volume / Mode | 1 µL / Split (10:1)                                                                                                               |
| Run Time                | 59 minutes                                                                                                                        |
| Data Analysis Software  | MassHunter GC/MS Acquisition B.07.02.1938 / Chemstation Enhanced Data Analysis F.01.01.2317 / NIST Library Version 2.2 Build 2014 |

