

**Chemical Information:**

Name: 2,4-Dichlorobenzoic acid  
CAS No.: 50-84-0 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_200756 Lot No.: 05312BB  
NTP\_CID No.: 164 MW: 191.01 g/mol

Date of Analysis: 4 Apr 2007

**Purity and Identity Results:**

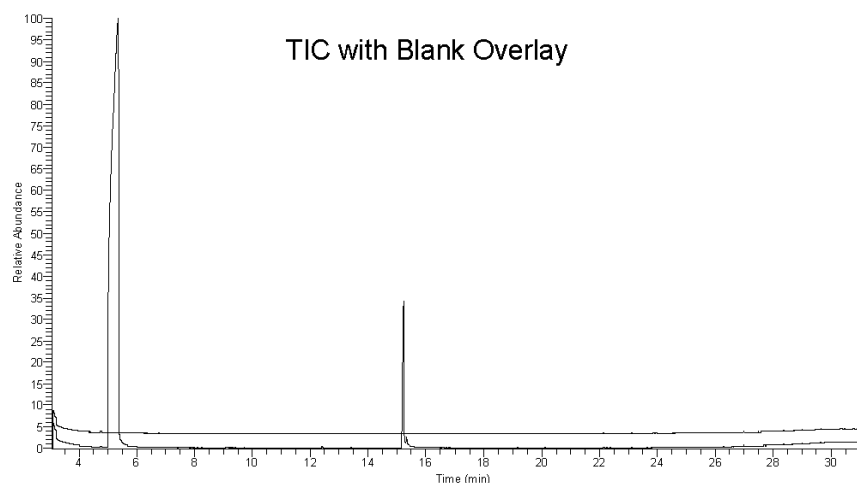
| Peak Identity            | Retention Time (min) | Purity (% Total Area) <sup>a</sup> |
|--------------------------|----------------------|------------------------------------|
| DMSO                     | 5.37                 | Not applicable                     |
| unknown                  | 12.41                | 0.75                               |
| 2,4-Dichlorobenzoic acid | 15.22                | 99.25                              |

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

**GC/MS Instrument Parameters:**

|                         |  |
|-------------------------|--|
| Instrument / Ionization | ThermoFinnigan TraceGC with ThermoFinnigan TraceMS / Electron Impact   |
| Solvent                 | Dichloromethane (100 mM in DMSO, diluted 1/1000 with dichloromethane)  |
| 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 2 min                 |
| Source Temperature      | 250°C  |
| Auxiliary Temperature   | 250°C  |
| Scan Range              | 50 – 250 amu   |
| Injector Temperature    | 250°C  |
| Injection Volume / Mode | 2 $\mu$ L / Splitless  |
| Run Time                | 31.5 minutes   |
| Data Analysis Software  | Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999                |

RT: 3.05 - 31.50 SM: 3G



07461314165 RT: 15.21 A: 1.548B  
T: (D) \*c6H4Cl2O2 Full MS [50.00-250.00]

