

### Chemical Information:

Name: Butyryl chloride  
CAS No.: 141-75-3  
Tox21\_ID No.: Tox21\_200294  
NTP\_CID No.: 580

Supplier: Sigma-Aldrich  
Lot No.: MKBB7552  
MW: 106.55 g/mol

Date of Analysis: 27 August 2010

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Butyryl chloride	6.03	97.94
unknown	9.95	1.86

<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 (Neat)
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	200°C
Auxiliary Temperature	200°C
Scan Range	15 – 500 amu
Injector Temperature	150°C
Injection Volume / Mode	1 $\mu$ L / Split (500:1)
Data Analysis Software	Xcalibur ver 1.2, and NIST Library ver 2.0f, build 10/08/2008

