

### Chemical Information:

Name: 4-(2-Methyl-4-chlorophenoxy)butyric acid Date of Analysis: 11 December 2009  
CAS No.: 94-81-5 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_201319 Lot No.: 7143X  
NTP\_CID No.: 2214 MW: 228.67 g/mol

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Phenol, 4-chloro-2-methyl- <sup>b</sup>	12.03	39.57
4-(2-Methyl-4-chlorophenoxy)butyric acid	19.02	60.43

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

<sup>b</sup> Target chemical without butyric acid; possibly result of analytical conditions.

### GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane (~ 1 mg/mL)
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)
Data Analysis Software	Xcalibur, ver 1.2 and NIST Library ver 2.0f, build 10/08/2008

