

### Chemical Information:

Name: 5-Chloro-2-methyl-1H-benzimidazole  
CAS No.: 2818-69-1 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_200803 Lot No.: S110305KB-2  
NTP\_CID No.: 406 MW: 166.61 g/mol

Date of Analysis: 26 September 2007

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
DMSO	5.16	Not applicable
5-Chloro-2-methyl-1H-benzimidazole	17.62	95.56
Unknown	19.65	0.86
Unknown	21.54	1.49
Unknown	29.95	0.54

<sup>a</sup> Peaks comprising ≥ 0.5% of total area.

### GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph / Mass Spectrometer / 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-μm 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 μL / Splitless
Run Time	31.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999

