

# Chemical Information:

Name: Tetrahydrofuran  
CAS No.: 109-99-9  
Tox21\_ID No.: Tox21\_201026  
NTP\_CID No.: 1337

Supplier: Sigma-Aldrich  
Lot No.: 14896LJ  
MW: 72.11 g/mol

Date of Analysis: 02 March 2010

# Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Tetrahydrofuran	2.24	99.90

<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	250°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°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

