

### Chemical Information:

Name: Decalin  
 CAS No.: 91-17-8  
 Tox21\_ID No.: Tox21\_200222  
 NTP\_CID No.: 686

Supplier: Sigma-Aldrich  
 Lot No.: 1328201  
 MW: 138.26 g/mol

Date of Analysis: 28 May 2009

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Decalin, cis- isomer	8.90	58.57
Decalin, trans- isomer	9.64	41.43

<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	Methanol (~ 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)
Run Time	36.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0, build 7/23/2008

