

# Chemical Information:

Name: 2-Methyl phenanthrene  
CAS No.: 2531-84-2  
Tox21\_ID No.: Tox21\_200567  
NTP\_CID No.: 5257

Supplier: Supelco  
Lot No.: LB39683  
MW: 192.30 g/mol

Date of Analysis: 06 August 2010

# Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
2-Methyl phenanthrene	20.57	98.98
unknown	20.82	1.02

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

# GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	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 7 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μL / Split (100:1)
Data Analysis Software	MSD ChemStation v D.03.00.SP1, and NIST Library v 2.0f, build 10/08/2008

