

# Chemical Information:

Name: 2-Pentene, 2,4,4-trimethyl-  
CAS No.: 107-40-4 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_200795 Lot No.: 07001TE  
NTP\_CID No.: 2636 MW: 112.21 g/mol

Date of Analysis: 30 June 2009

## Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
2-Pentene, 2,4,4-trimethyl-	3.21	97.22
unknown	3.30	1.13
unknown	4.78	1.27

<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	Chloroform (~ 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 ver 1.2 and NIST Library ver 2.0f, build 10/8/2008

