

### Chemical Information:

Name: Methyl vinyl ketone

Date of Analysis: 13 November 2009

CAS No.: 78-94-4

Supplier: Sigma-Aldrich

Tox21\_ID No.: Tox21\_200363

Lot No.: 07912AD

NTP\_CID No.: 965

MW: 70.09 g/mol

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
unknown	1.36	0.72
Methyl vinyl ketone	1.86	76.96
2-Acetyl-5-methyl-2,3-dihydro-4H-pyran	8.67	20.23
unknown	12.15	0.68

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

### GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Not applicable; analysis of neat chemical
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	10°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 μL / Split (480:1)
Data Analysis Software	Xcalibur, ver 1.2 and NIST Library ver 2.0f, build 10/08/2008

