

### Chemical Information:

Name: Dimethyl methylphosphonate  
CAS No.: 756-79-6 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_201534 Lot No.: 53598PJ  
NTP\_CID No.: 4243 MW: 124.08 g/mol

Date of Analysis: 04 September 2009

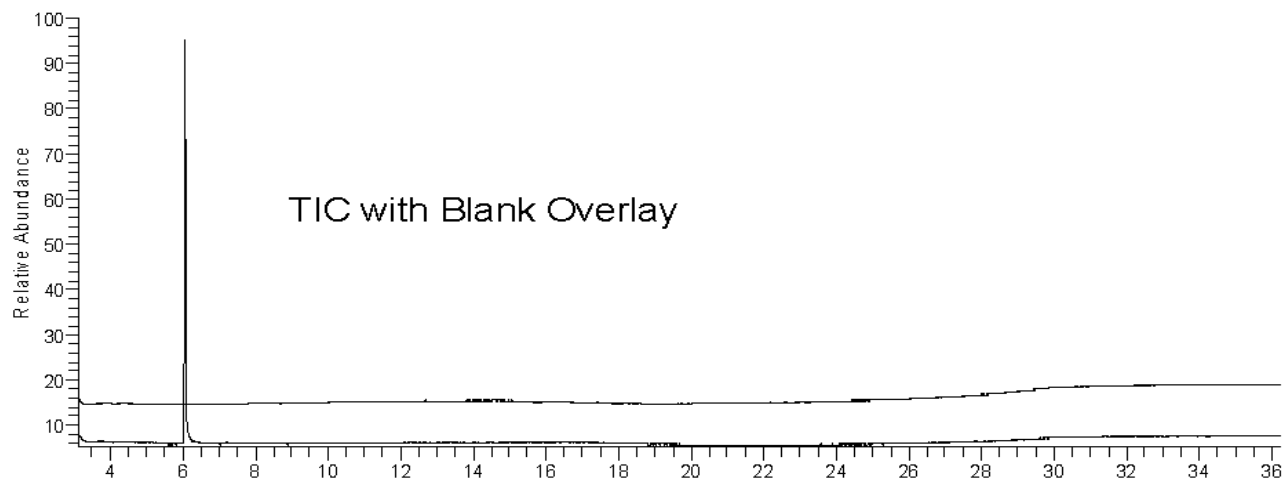
### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Dimethyl methylphosphonate	6.07	100.00

<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	Ethanol
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)
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0f, build 10/08/2008



0910409 #361 RT: 6.04 AU: 1.50 2.599, 6.28 IN: 3.11E9  
T: (0.0) + c EI dech=500.00 Full ms [25.00-500.00]

