

# Chemical Information:

Name: Diethyl ethylphosphonate  
CAS No.: 78-38-6 Supplier: Sigma-Aldrich  
Tox21\_ID No.: Tox21\_200361 Lot No.: 441594/1  
NTP\_CID No.: 721 MW: 166.16g/mol

Date of Analysis: 27 March 2007

# Purity and Identity Results:

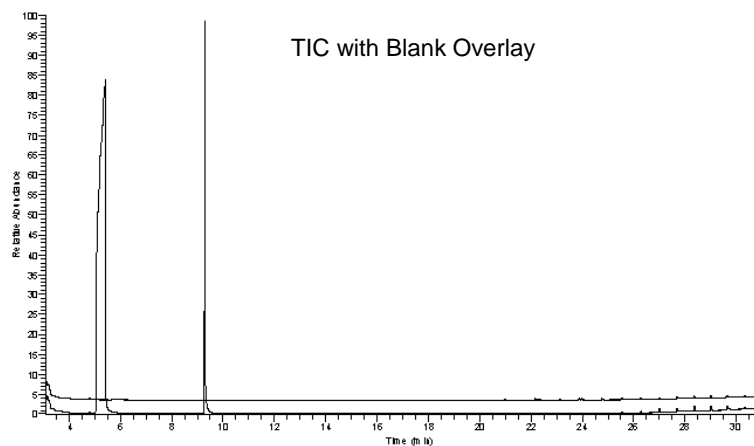
Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
DMSO	5.39	Not applicable
Diethyl ethylphosphonate	9.26	100.00

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

# GC/MS Instrument Parameters:

Instrument / Ionization	ThermoFinnigan TraceGC with ThermoFinnigan TraceMS / Electron Impact
Solvent	Dichloromethane (100 mM in DMSO, diluted 1/1000 with 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 2 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	50 – 250 amu
Injector Temperature	250°C
Injection Volume / Mode	2 μL / Splitless
Run Time	31.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999

RT: 9.26 - 31.48 SM: 30



07-07-09 #151 RT: 9.26 AU: 1 NL: 3.0865  
T: (P) + c E: 1.35000 F: 110.00-950.00

