

### Chemical Information:

Name: Isodecyl diphenyl phosphate Date of Analysis: 04 January 2017  
 CAS No.: 29761-21-5 Supplier: Bayville Chemical Supply Co.  
 Tox21\_ID No.: Tox21\_202981 Lot No.: 122AI  
 NTP\_CID No.: 2480 MW: 390.45 g/mol

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>	Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Triphenyl phosphate	45.77	4.32	CAS# 29761-21-5	49.33	16.02
CAS# 29761-21-5	48.78	8.93	CAS# 29761-21-5	49.46	11.11
CAS# 29761-21-5	49.06	8.99	CAS# 29761-21-5	49.81	7.92
CAS# 29761-21-5	49.22	7.36	Unknown	58.19	2.59

<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area. In addition to the six components reported as isodecyl diphenyl phosphate (CAS# 29761-21-5), there were 14 component peaks between 47.5 and 50.3 minutes, ranging from 0.52% to 4.54%. All were identified as isodecyl diphenyl phosphate: total purity = 92.19%.

### GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Acetone
Column	Rtx-5 MS, 30 m x 0.25 mm ID, 1- $\mu$ m film thickness
Carrier Gas	Helium at 1.5 mL/min
Oven Program	50°C, hold 2 min; ramp @ 5°C/min to 315°C, hold 15 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	50 – 400 amu
Injector Temperature	250°C
Injection Volume / Mode	1 $\mu$ L / Splitless
Data Analysis Software	MassHunter GC/MS Acquisition B.07.02.1938 / MassHunter Qualitative Analysis B.07.00 Build 7.0.7024.0 / NIST Library Version 2.2f Build 2014

