

Chemical Information:

Name: tert-Butylphenyl diphenyl phosphate
CAS No.: 56803-37-3 Supplier: Ubichem PLC
Tox21_ID No.: Tox21_202980 Lot No.: M062011NS
NTP_CID No.: 2428 MW: 382.39 g/mol

Date of Analysis: 21 May 2012

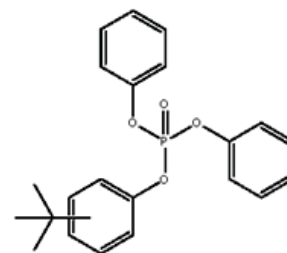
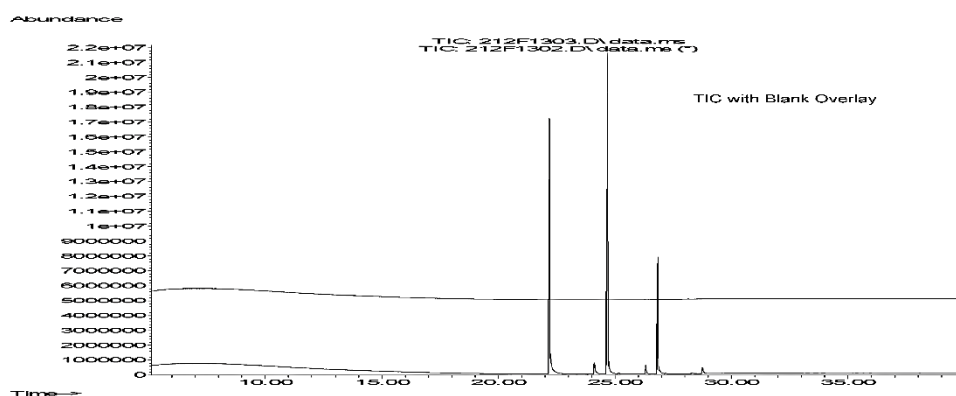
Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a	Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
TPP	22.19	27.50	DBPP	26.31	2.61
BPDP	24.10	2.77	DBPP	26.83	20.34
BPDP	24.69	41.59	TBPP	28.75	3.41

^a Peaks comprising $\geq 0.5\%$ of total area. Purity is based on the triphosphate ester content: triphenyl phosphate (TPP, CAS# 115-86-6), two isomers of tert-butylphenyl diphenyl phosphate (BPDP, CAS# 56803-37-3), two isomers of di(tert-butylphenyl) phenyl phosphate (DBPP, CAS# 65652-41-7), and tris(tert-butylphenyl) phosphate (TBPP, CAS# 78-33-1); total = 98.22%. (CIPS Assignment CHEM10729)

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with FID and Mass Spectrometer / Electron Impact
Solvent	Dichloromethane
Column: FID	J&W Scientific DB-5, 30 m x 0.53 mm ID, 1.5- μ m film thickness
Mass Spec	J&W Scientific DB-5HT, 30 m x 0.25 mm ID, 0.1- μ m film thickness
Carrier Gas	Helium, at ~ 10 mL/min (FID) and 1.5 mL/min (Mass Spec)
Oven Program	50°C, hold 4 min; ramp @ 10°C/min to 300°C, hold 11 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C (FID); 275°C (Mass Spec)
Injection Volume / Mode	1 μ L / Splitless
Data Analysis Software	TotalChrom version 6.3.0 / Chemstation version D.03.00.SP1 / NIST Library Version 2.0f, Build October 8, 2008



m/z	Mass Ion / Fragment
382	Mass Ion
367	C ₂₁ H ₂₀ O ₄ P

