

Chemical Information:

Name: Arochlor 1016
CAS No.: 12674-11-2
Tox21_ID No.: Tox21_202248
NTP CID No.: 2108

Supplier: Supelco
Lot No.: LB61078
MW: Not applicable

Date of Analysis: 11 December 2009

Purity and Identity Results:

Peak Identity	RT (min)	Purity (% Total Area) ^a	Peak Identity	RT (min)	Purity (% Total Area) ^a
Monochlorobiphenyl	15.15	0.58	1,1'-Biphenyl, 2,2',5-trichloro-	18.84	6.63
1,1'-Biphenyl, 2,4'-dichloro-	17.51	8.96	1,1'-Biphenyl, trichloro-	19.40	18.10
1,1'-Biphenyl, 2,2',5-trichloro-	18.44	10.55	1,1'-Biphenyl, trichloro-	19.59	8.13
1,1'-Biphenyl, 2,2',5-trichloro-	18.48	6.65	1,1'-Biphenyl, 2,2',3,5'-tetrachloro-	20.51	7.17

^a Arochlor 1016 is a mixture of mono-, di-, tri- and tetrachlorobiphenyl compounds. In addition to the components listed in the table, 15 unidentified chlorobiphenyl compounds were detected, ranging from 0.55 to 4.54%. One observed component, present at 0.65%, was not related to Arochlor 1016, resulting in a purity of 99.35%.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane (~ 1 mg/mL)
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 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 (100:1)
Data Analysis Software	Xcalibur, ver 1.2 and NIST Library ver 2.0f, build 10/08/2008

