

Chemical Information:

Name: Pentabromodiphenyl ether Date of Analysis: 22 September 2010
CAS No.: 32534-81-9 Supplier: Great Lakes Chemical Corporation
Tox21_ID No.: Tox21_201143 Lot No.: 3550OL30D
NTP_CID No.: 1165 MW: 564.69 g/mol

Purity and Identity Results:

| Peak Identity | Retention Time (min) | Purity (% Total Area) ^a |
|--------------------------------------|----------------------|------------------------------------|
| 2,2',4,4'-Tetrabromodiphenyl ether | 25.50 | 47.86 |
| Unknown | 27.04 | 4.69 |
| 2,2',4,4',5-Pentabromodiphenyl ether | 27.46 | 47.45 |

^a Peaks comprising $\geq 0.5\%$ of total area.

Note: Per the MSDS, product is a mixture of tri-, tetra-, penta- and hexabrominated diphenyl ethers. Purity is reported as the total of identified components: 95.31%.

GC/MS Instrument Parameters:

| | |
|-------------------------|---|
| Instrument / Ionization | Gas Chromatograph with Mass Spectrometer / Electron Impact |
| Solvent | Dichloromethane |
| Column | J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25- μ 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 | 230°C |
| Auxiliary Temperature | 250°C |
| Scan Range | 15 – 570 amu |
| Injector Temperature | 250°C |
| Injection Volume / Mode | 1 μ L / Split (100:1) |
| Data Analysis Software | MSD Chemstation, v D.03.00.SP1 and NIST Library v 2.0f, build 10/8/2008 |

