

### Chemical Information:

Name: Di-tert-butyl peroxide

Date of Analysis: 28 May 2009

CAS No.: 110-05-4

Supplier: Sigma-Aldrich

Tox21\_ID No.: Tox21\_201461

Lot No.: 01696PJ

NTP\_CID No.: 764

MW: 146.23 g/mol

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Di-tert-butyl peroxide	4.13	97.41
unknown	7.07	2.59

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

### 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-μm film thickness
Carrier Gas	Helium at 1.1 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	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μL / Split (87:1)
Run Time	36.5 minutes
Data Analysis Software	MSD Chemstation, v D.03.00.SP1 and NIST Library v 2.0f, build 10/8/2008

