

Chemical Information:

Name: tert-Butyl hydroperoxide (70% Solution in Water)
CAS No.: 75-91-2
Tox21_ID No.: Tox21_200838
NTP_CID No.: 1322

Supplier: Sigma-Aldrich
Lot No.: 59797MJ
MW: 90.12 g/mol

Date of Analysis: 26 February 2010

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
tert-Butyl hydroperoxide (70% Solution in Water)	3.19	100.00

^a Peaks comprising ≥ 0.5% of total area.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Methanol
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, v 1.2 and NIST Library v 2.0f, build 10/08/2008

