

Chemical Information:

Name: Methyl-t-butyl ether
CAS No.: 1634-04-4
Tox21_ID No.: Tox21_201184
NTP_CID No.: 1314

Supplier: Sigma-Aldrich
Lot No.: 00446AJ
MW: 88.15 g/mol

Date of Analysis: 18 February 2010

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
unknown	1.52	2.45
Methyl-t-butyl ether	1.84	96.77
unknown	2.49	0.54

^a Peaks comprising ≥ 0.5% of total area.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Not applicable (Neat)
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 (500:1)
Data Analysis Software	Xcalibur ver. 1.2, and NIST Library ver. 2.0f, build 10/08/2008

