

Chemical Information:

Name: 1-Butene, 3,3-dimethyl-
CAS No.: 558-37-2
Tox21_ID No.: Tox21_202256
NTP_CID No.: 2835

Date of Analysis: 19 October 2010

Supplier: Sigma-Aldrich
Lot No.: 1371444
MW: 84.16 g/mol

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
1-Butene, 3,3-dimethyl-	2.88	99.37

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

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Not applicable
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	-10°C, hold 4 min; ramp @ 10°C/min to 310°C, hold 7 min
Source Temperature	200°C
Auxiliary Temperature	200°C
Scan Range	25 – 500 amu
Injector Temperature	150°C
Injection Volume / Mode	1 μ L / Split (330:1)
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0f, build 10/08/2008

