

Chemical Information:

Name: Methoprene
CAS No.: 40596-69-8
Tox21_ID No.: Tox21_200654
NTP_CID No.: 941

Supplier: Sigma-Aldrich
Lot No.: SZE8022X
MW: 310.47 g/mol

Date of Analysis: 29 March 2010

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a	Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
unknown	9.56	0.59	Methoprene	21.94	94.74
unknown	13.00	1.31	unknown	22.48	0.53
unknown	21.44	2.18	unknown	22.58	0.65

^a Peaks comprising ≥ 0.5% of total area.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane (~ 1 mg/mL)
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 ver. 1.2, and NIST Library ver 2.0f, build 10/08/2008

