

Chemical Information:

Name: Resmethrin
CAS No.: 10453-86-8
Tox21_ID No.: Tox21_202138
NTP_CID No.: 2079

Supplier: Sigma-Aldrich
Lot No.: 8158X
MW: 338.44 g/mol

Date of Analysis: 14 December 2009

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
unknown	15.27	3.12
Resmethrin	24.17	18.39
Resmethrin	24.28	78.49

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

Mixture of *cis* and *trans* isomers per CoA.

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- μ m 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 μ L / Split (100:1)
Data Analysis Software	Xcalibur, ver 1.2 and NIST Library ver 2.0f, build 10/08/2008

