

### Chemical Information:

Name: 1-Octadecene  
CAS No.: 112-88-9  
Tox21\_ID No.: Tox21\_202739  
NTP\_CID No.: 2704

Supplier: Sigma-Aldrich  
Lot No.: 1362539  
MW: 252.48 g/mol

Date of Analysis: 16 December 2016

### Purity and Identity Results:

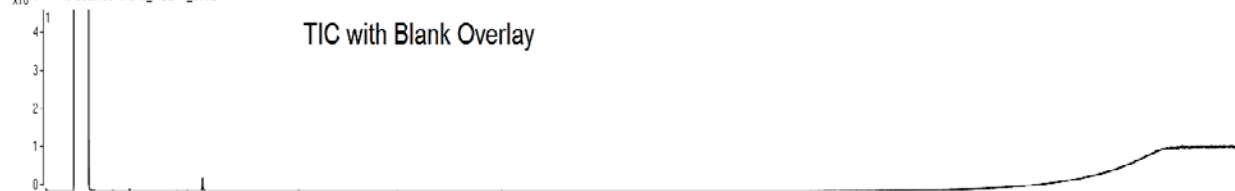
| Peak Identity | Retention Time (min) | Purity (% Total Area) <sup>a</sup> |
|---------------|----------------------|------------------------------------|
| Unknown       | 33.40                | 0.60                               |
| Unknown       | 33.59                | 0.51                               |
| Unknown       | 34.04                | 0.87                               |
| 1-Octadecene  | 34.17                | 97.35                              |

<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area.

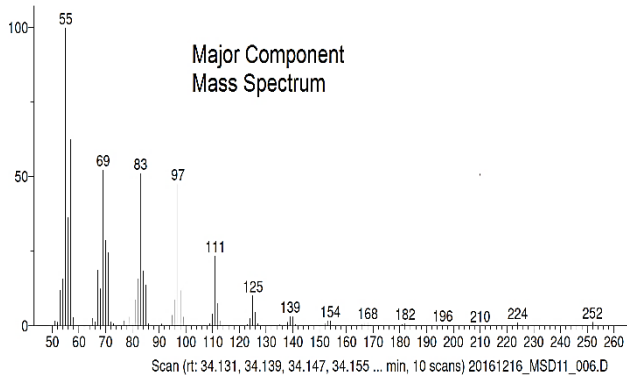
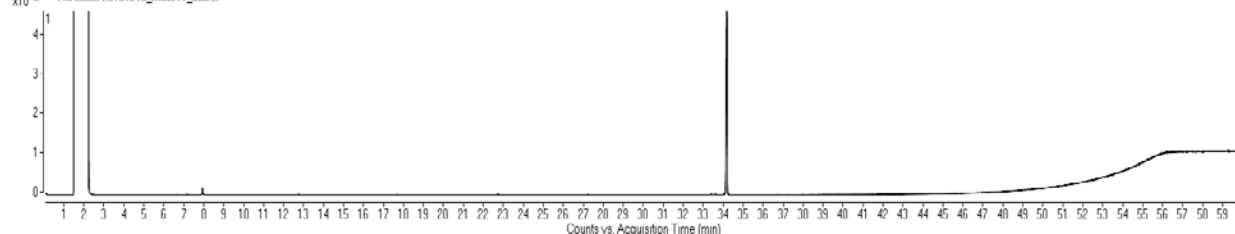
### GC/MS Instrument Parameters:

|                         |   |
|-------------------------|---|
| Instrument / Ionization | Gas Chromatograph with Mass Spectrometer / Electron Impact  |
| Solvent                 | Acetone   |
| Column                  | Rtx-5 MS, 30 m x 0.25 mm ID, 1- $\mu$ m film thickness  |
| Carrier Gas             | Helium at 1.5 mL/min  |
| Oven Program            | 50°C, hold 2 min; ramp @ 5°C/min to 315°C, hold 5 min   |
| Source Temperature      | 230°C   |
| Auxiliary Temperature   | 250°C   |
| Scan Range              | 50 – 400 amu  |
| Injector Temperature    | 250°C   |
| Injection Volume / Mode | 1 $\mu$ L / Splitless   |
| Data Analysis Software  | MassHunter GC/MS Acquisition B.07.02.1938 / MassHunter Qualitative Analysis B.07.00 Build 7.0.7024.0 / NIST Library Version 2.2f Build 2014 |

x10<sup>5</sup> • TIC:Scan 20161216\_MSD11\_003.D



x10<sup>5</sup> • TIC:Scan 20161216\_MSD11\_006.D



Hit 1: 1-Octadecene  
C<sub>18</sub>H<sub>36</sub>; MF: 899; RMF: 900; Prob 2.66%; CAS: 112-88-9; Lib: mainlib; ID: 6710.

