

### Chemical Information:

Name: 1-Octadecanaminium, N,N,N-trimethyl-, chloride  
CAS No.: 112-03-8  
Tox21\_ID No.: Tox21\_200438  
NTP\_CID No.: 2677

Supplier: TCI America  
Lot No.: JOZJA  
MW: 348.05 g/mol

Date of Analysis: 05 August 2015

### Purity and Identity Results:

| Peak Identity                                  | Retention Time (min) | Purity (% Total Area) <sup>a</sup> |
|--|----------------------|------------------------------------|
| Ethanol  | 1.50                 | Not applicable                     |
| Unknown  | 38.30                | 2.70                               |
| 1-Octadecanaminium, N,N,N-trimethyl-, chloride | 38.56                | 97.3                               |

<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                 | Ethanol (~ 400 µg/mL)   |
| Column                  | Restek Rtx-5MS with Integra-Guard, 30 m x 0.25 mm ID, 1-µm film thickness   |
| Carrier Gas             | Helium at 2 mL/min  |
| Oven Program            | 50°C, hold 2 min; ramp @ 5°C/min to 320°C, hold 5 min   |
| Source Temperature      | 230°C   |
| Auxiliary Temperature   | 250°C   |
| Scan Range              | 40 – 575 amu  |
| Injector Temperature    | 250°C   |
| Injection Volume / Mode | 1 µL / Split (10:1)   |
| Run Time                | 59 minutes  |
| Data Analysis Software  | MassHunter GC/MS Acquisition B.07.02.1938 / Chemstation Enhanced Data Analysis F.01.01.2317 / NIST Library Version 2.2 Build 2014 |

