

Chemical Information:

Name: 9-Octadecenoic acid (9Z)-, butyl ester Date of Analysis: 16 March 2017
 CAS No.: 142-77-8 Supplier: City Chemical Products
 Tox21_ID No.: Tox21_202744 Lot No.: 90G89
 NTP_CID No.: 2775 MW: 338.58 g/mol

Purity and Identity Results:

| Peak Identity | Retention Time (min) | Purity (% Total Area) ^a |
|--|----------------------|------------------------------------|
| Unknown | 25.97 | 1.65 |
| Unknown | 27.76 | 2.21 |
| Hexadecanoic acid, butyl ester | 27.88 | 7.96 |
| 9-Octadecenoic acid (9Z)-, butyl ester | 29.48 | 81.38 |
| Octadecanoic acid, butyl ester | 29.63 | 5.74 |

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

GC/MS Instrument Parameters:

| | |
|-------------------------|--|
| Instrument / Ionization | Gas Chromatograph with Mass Spectrometer / Electron Impact |
| Solvent | Methanol |
| Column | Restek Rtx-5MS with Integra-Guard, 30 m x 0.25 mm ID, 1- 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 | 40 – 655 amu |
| Injector Temperature | 250°C |
| Injection Volume / Mode | 1 μ 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 2.2 Build 2014 |

