

Chemical Information:

Name: Acrolein
 CAS No.: 107-02-8
 Tox21_ID No.: Tox21_200984
 NTP_CID No.: 449
 Supplier: Sigma-Aldrich
 Lot No.: 1399419
 MW: 56.06 g/mol

Date of Analysis: 30 October 2009

Purity and Identity Results:

| Peak Identity | Retention Time (min) | Purity (% Total Area) ^a |
|---------------|----------------------|------------------------------------|
| Acrolein | 1.73 | 84.22 |
| Unknown | 8.13 | 3.52 |
| Hydroquinone | 14.78 | 11.79 |

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

GC/MS Instrument Parameters:

| | |
|-------------------------|--|
| Instrument / Ionization | Gas Chromatograph with Mass Spectrometer / Electron Impact |
| Solvent | Not applicable; analysis of neat chemical |
| 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 | 10°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 (480:1) |
| Data Analysis Software | Xcalibur, v 1.2 and NIST Library v 2.0f, build 10/08/2008 |

