

### Chemical Information:

Name: 1,4-Benzenedicarboxylic acid, monomethyl ester  
CAS No.: 1679-64-7 Supplier: Sigma Aldrich  
Tox21\_ID No.: Tox21\_200990 Lot No.: 07007HH  
NTP\_CID No.: 2975 MW: 180.16 g/mol

Date of Analysis: 11 August 2015

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Methanol	1.50	Not applicable
1,4-Benzenedicarboxylic acid, monomethyl ester	27.37	99.09

<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	Methanol (~ 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 – 750 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

