

Chemical Information:

Name: 1,2-Dichloroethylene
 CAS No.: 540-59-0
 Tox21_ID No.: Tox21_200774
 NTP_CID No.: 637

Date of Analysis: 27 August 2010

Supplier: Sigma-Aldrich
 Lot No.: 94296PJ
 MW: 96.94 g/mol

Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
trans-1,2-Dichloroethylene (CAS# 156-60-5)	5.12	27.89
cis-1,2-Dichloroethylene (CAS# 156-59-2)	7.21	72.10

^a Peaks comprising ≥ 0.5% of total area.

Note: Per CoA, mixture of *cis* and *trans* isomers. Total of observed isomers: 99.99%

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Not applicable (Neat)
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25-μm film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	−10°C, hold 4 min; ramp @ 10°C/min to 310°C, hold 7 min
Source Temperature	200°C
Auxiliary Temperature	200°C
Scan Range	15 – 500 amu
Injector Temperature	150°C
Injection Volume / Mode	1 μL / Split (420:1)
Data Analysis Software	Xcalibur ver 1.2, and NIST Library ver 2.0f, build 10/08/2008

