

Chemical Information:

Name: 2-Butenedioic acid (2Z)-, dibutyl ester Date of Analysis: 16 April 2010
CAS No.: 105-76-0 Supplier: Sigma-Aldrich
Tox21_ID No.: Tox21_200779 Lot No.: 07715CH
NTP_CID No.: 2628 MW: 228.28 g/mol

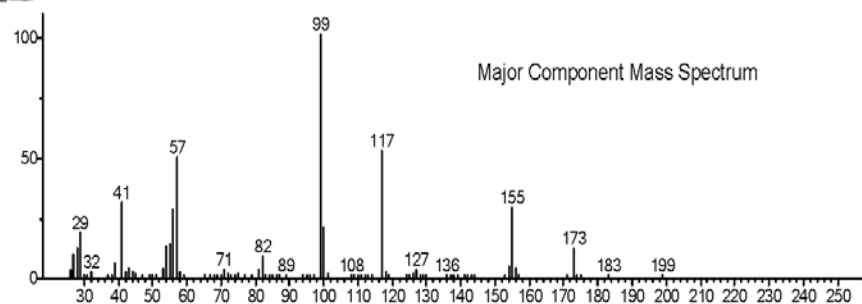
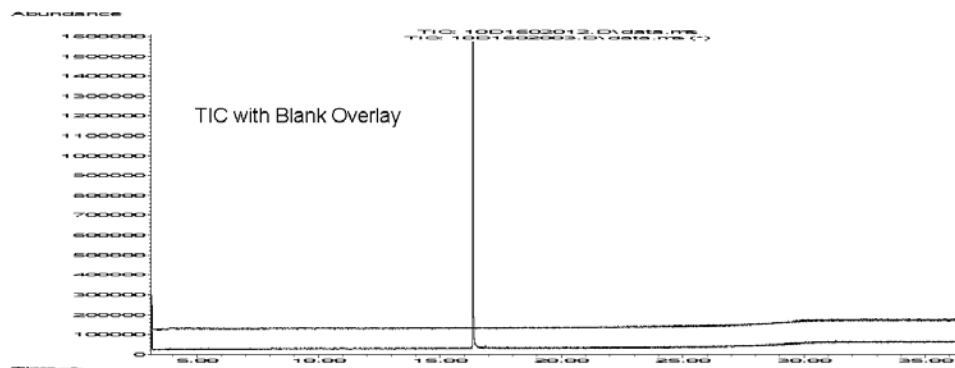
Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
2-Butenedioic acid (2Z)-, dibutyl ester	16.37	100.00

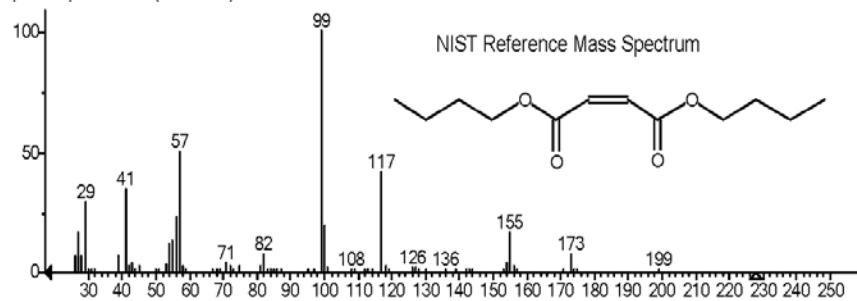
^a Peaks comprising ≥ 0.5% of total area.

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane (~ 1 mg/mL)
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	35°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 7 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μL / Split (100:1)
Data Analysis Software	MSD ChemStation v E.02.00.SP2, and NIST Library v 2.0, build 7/23/2008



(Text File) Scan 2434 (16.365 min): 10D1602012.D\data.ms



(mainlib) 2-Butenedioic acid (2Z)-, dibutyl ester