

Chemical Information:

Name: Fumaric acid
CAS No.: 110-17-8
Tox21_ID No.: Tox21_201769
NTP_CID No.: 817
Supplier: Sigma-Aldrich
Lot No.: 07608TC
MW: 116.07 g/mol

Date of Analysis: 24 February 2009

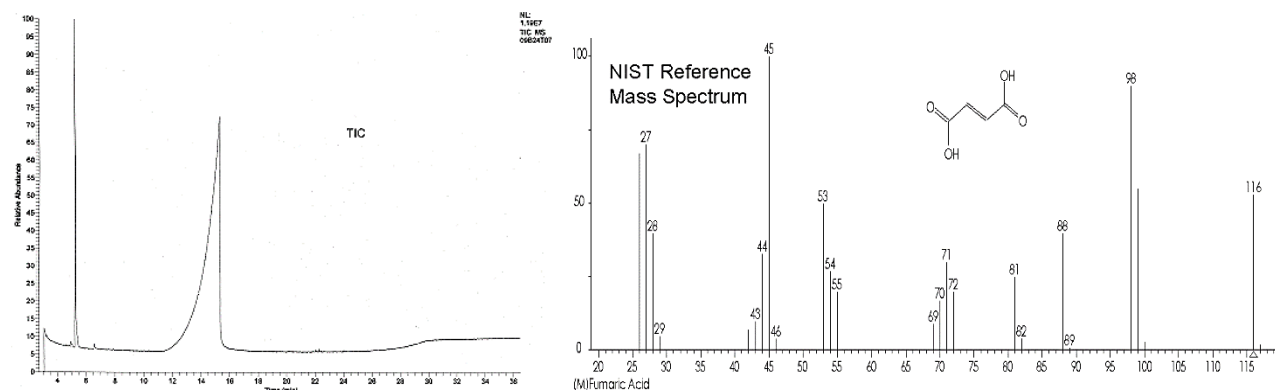
Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Acetone	5.24	Not applicable
Fumaric acid	15.53	100.00

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

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Acetone (~ 1 mg/mL)
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	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	25 – 350 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μ L / Split (10:1)
Run Time	36.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0, build 7/23/2008



09b2407 #1127 RT: 12.39 AV: 1 SB: 2 11.17, 15.77 NL: 4.50E4
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