

### Chemical Information:

Name: Dimethyl glutarate

Date of Analysis: 12 July 2007

CAS No.: 1119-40-0

Supplier: Sigma-Aldrich

Tox21\_ID No.: Tox21\_201235

Lot No.: 358841/1

NTP\_CID No.: 741

MW: 160.17 g/mol

### Purity and Identity Results:

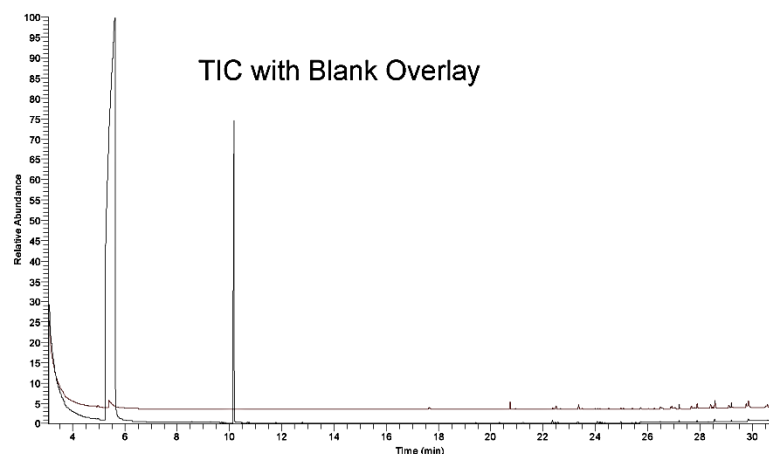
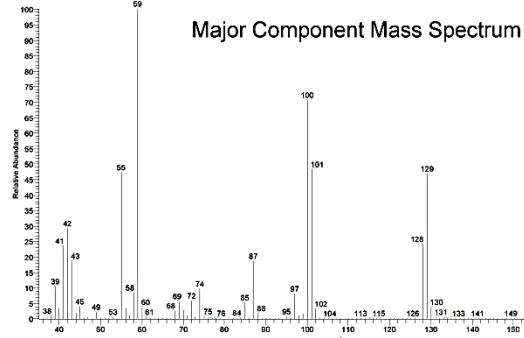
Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
DMSO	5.63	Not applicable
Dimethyl glutarate	10.18	99.56

<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area.

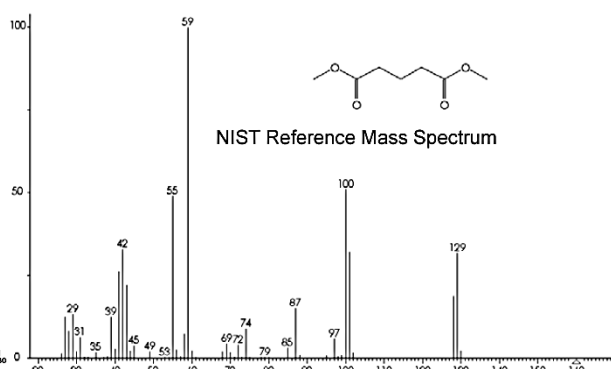
### GC/MS Instrument Parameters:

Instrument / Ionization	ThermoFinnigan TraceGC with ThermoFinnigan TraceMS / Electron Impact
Solvent	Dichloromethane (100 mM in DMSO, diluted 1/1000 with dichloromethane)
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25- $\mu$ 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 2 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	35 – 250 amu
Injector Temperature	250°C
Injection Volume / Mode	2 $\mu$ L / Splitless
Run Time	31.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999

RT: 3.05 - 31.50 SM: 3G


07/12/03 #1074 RT: 10.16 AU: 1 NL: 3.18E6  
T: 10.0 s c: 0.1 dec: 300.00 Full ms [35.00-250.00]


Major Component Mass Spectrum



NIST Reference Mass Spectrum