

Chemical Information:

Name: Valproic acid
CAS No.: 99-66-1
Tox21_ID No.: Tox21_074K3654
NTP_CID No.: 1392

Supplier: Sigma-Aldrich
Lot No.: 074K3654
MW: 144.21 g/mol

Date of Analysis: 24 October 2007

Purity and Identity Results:

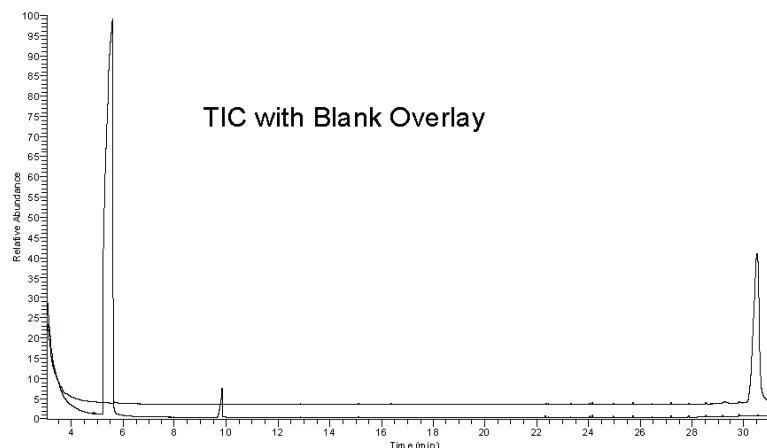
Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
DMSO	5.61	Not applicable
unknown	5.80	0.57
Valproic acid	9.84	99.43

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

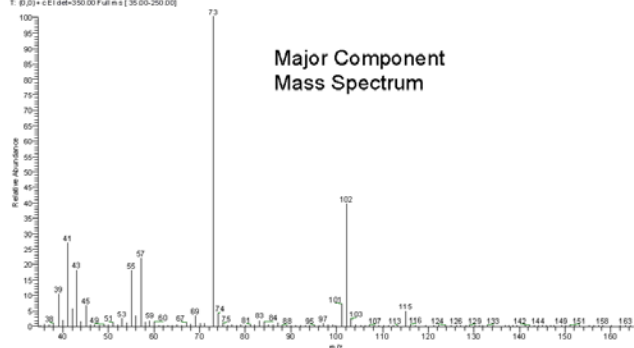
GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph / Mass Spectrometer / 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- 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 2 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	35 – 250 amu
Injector Temperature	250°C
Injection Volume / Mode	2 μ L / Splitless
Run Time	31.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 1.7, build 11/5/1999

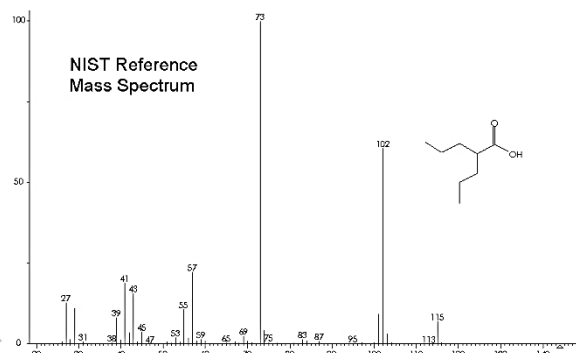
RT: 3.05 - 31.51 SM: 30



07/24/04 #1789 RT: 9.83 ACQ: 1 SB: 2 9.89, 9.95 NL: 1.08E6
T: 0.00 + CEI: 0.00 + 350.00 Full MS: 1 35.00-250.00



Major Component
Mass Spectrum



NIST Reference
Mass Spectrum

