

Chemical Information:

Name: m-Tolunitrile
CAS No.: 620-22-4
Tox21_ID No.: Tox21_200853
NTP_CID No.: 994

Supplier: Sigma-Aldrich
Lot No.: 15009PO
MW: 117.15 g/mol

Date of Analysis: 29 November 2007

Purity and Identity Results:

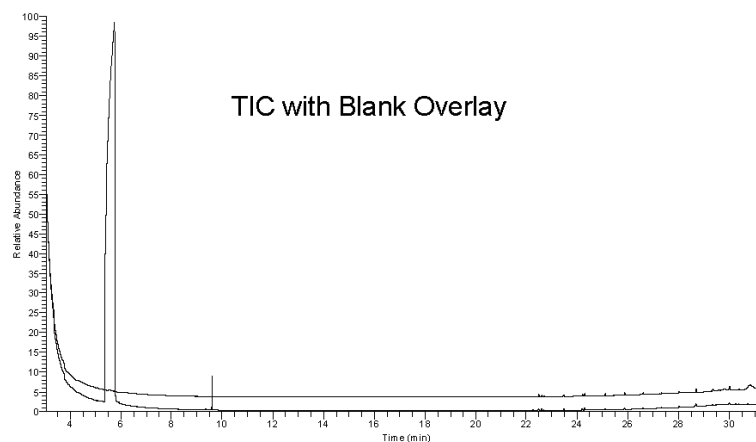
Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
DMSO	5.74	Not applicable
m-Tolunitrile	9.59	98.89
unknown	22.25	1.11

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

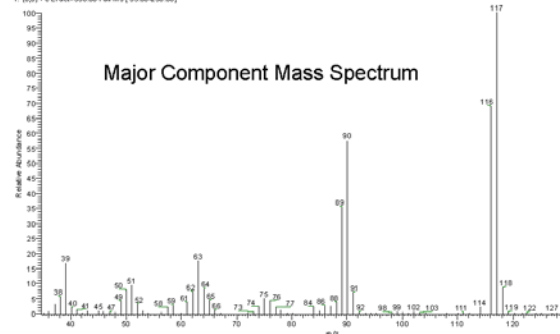
GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with 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 - 31.50 SM: 30



07/29/08 17:26 RT: 9.59 AU: 1 SM: 2 22:22, 22:29 NL: 1 0166
T: 0.01 + c (166-050.00) Full ms (1.00-2.00.00)



NIST Reference Mass Spectrum

