

Chemical Information:

Name: Isobutyl methacrylate

Date of Analysis: 12 July 2007

CAS No.: 97-86-9

Supplier: Sigma-Aldrich

Tox21_ID No.: Tox21_201568

Lot No.: 09114PA

NTP_CID No.: 876

MW: 142.20 g/mol

Purity and Identity Results:

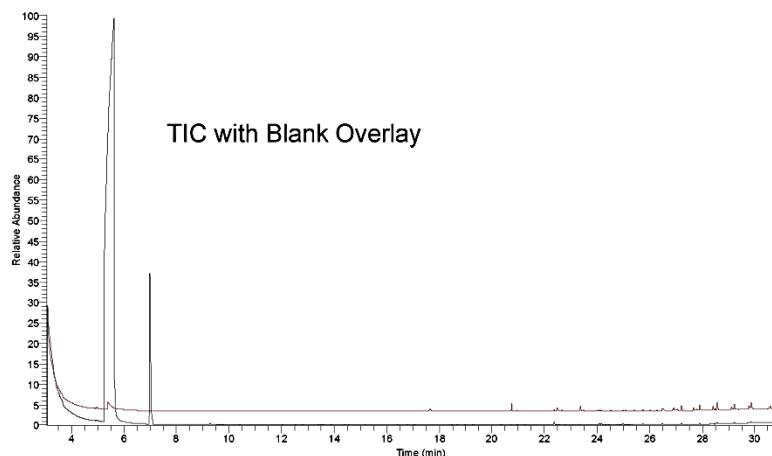
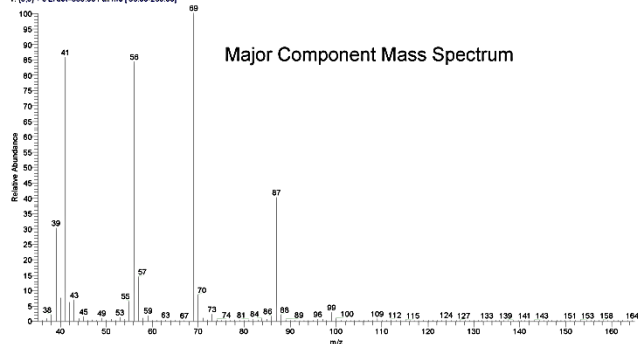
Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
DMSO	5.64	Not applicable
Isobutyl methacrylate	6.99	99.81

^a 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- 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: 3G


07/12/10 10:49 RT: 7.01 AU: 1 NL: 3.62E6
T: (0.0) + c EI det=350.00 Full ms [35.00-250.00]


NIST Reference Mass Spectrum

