

Chemical Information:

Name: Phthalic anhydride

Date of Analysis: 27 June 2007

CAS No.: 85-44-9

Supplier: Sigma-Aldrich

Tox21_ID No.: Tox21_200142

Lot No.: 11908MC

NTP_CID No.: 1198

MW: 148.12 g/mol

Purity and Identity Results:

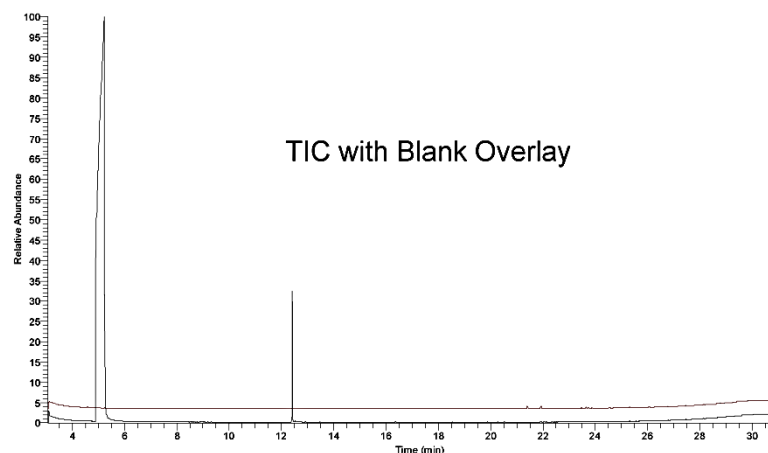
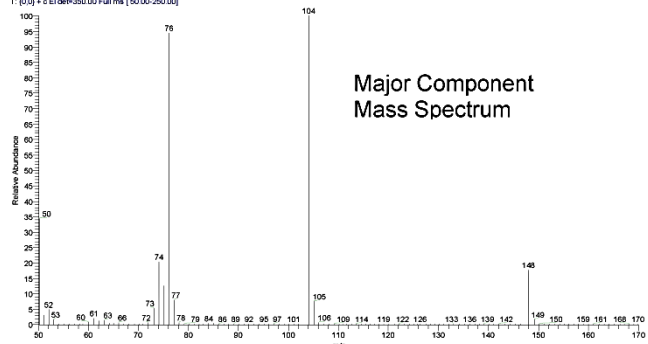
Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
DMSO	5.23	Not applicable
Phthalic anhydride	12.41	97.94
unknown	12.54	0.77

^a Peaks comprising ≥ 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-μm 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	50 – 250 amu
Injector Temperature	250°C
Injection Volume / Mode	2 μL / 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 - 31.49 SM: 3G


0702705 #1129 RT: 12.41 AU: 1 NL: 2.51E6
T: (D) + c E1 det=350.00 Full ms [50.00-250.00]


NIST Reference Mass Spectrum

