

Chemical Information:

Name: Fumaronitrile
CAS No.: 764-42-1
Tox21_ID No.: Tox21_201151
NTP_CID No.: 818

Supplier: Sigma-Aldrich
Lot No.: 11121CG
MW: 78.07 g/mol

Date of Analysis: 23 August 2007

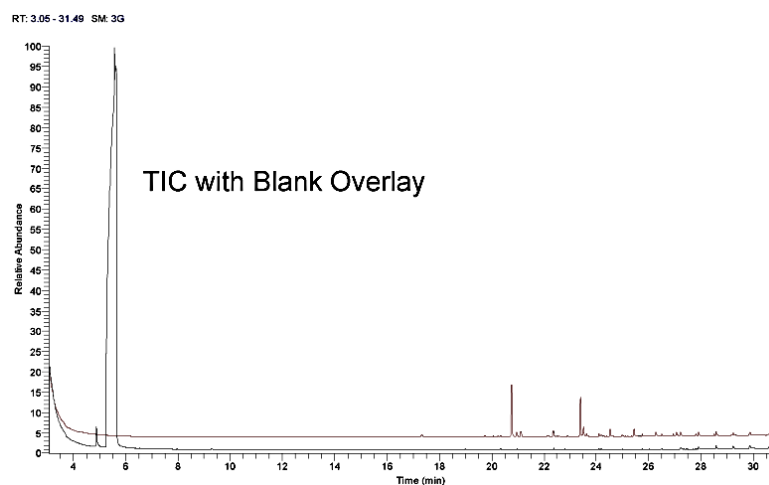
Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) ^a	Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
Fumaronitrile	4.88	95.28	unknown	18.99	1.13
DMSO	5.58	Not applicable	unknown	22.79	1.13
unknown	6.54	1.09	unknown	26.01	0.65
unknown	16.80	0.73			

^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	25 – 200 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



07/23/27 #226 RT: 4.88 AU: 1 SB: 2 4.83, 5.08 NL: 1.3368
T: (0.0) v: 8.0 det: 350.00 Full ms [25.00-200.00]

