

Chemical Information:

Name: 5-(Hydroxymethyl)-2-furfural

Date of Analysis: 30 August 2007

CAS No.: 67-47-0

Supplier: Radian International

Tox21_ID No.: Tox21_201892

Lot No.: 34266-36

NTP_CID No.: 397

MW: 126.11 g/mol

Purity and Identity Results:

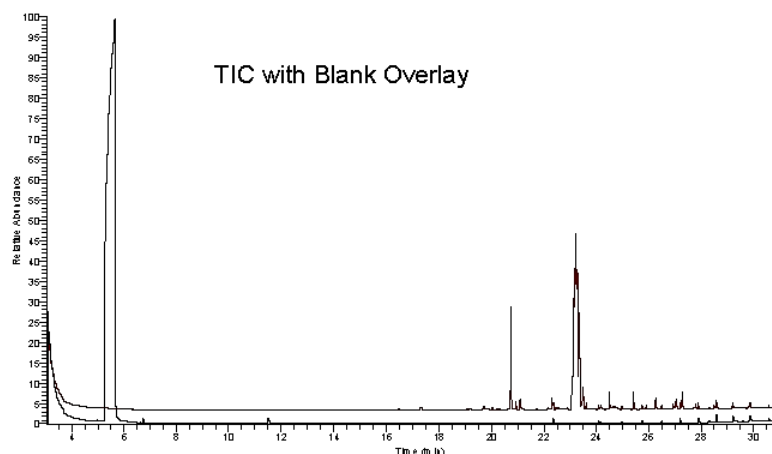
Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
DMSO	5.65	Not applicable
unknown	8.54	2.28
5-(Hydroxymethyl)-2-furfural	11.51	97.72

^a Peaks comprising ≥ 0.5% of total area.

GC/MS Instrument Parameters:

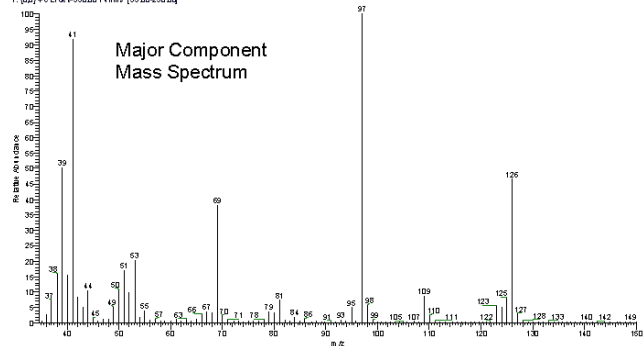
Instrument / Ionization	ThermoFinnigan TraceGC with ThermoFinnigan TraceMS / Electron Impact
Solvent	Dichloromethane (100 mM in DMSO, diluted 1/1000 with dichloromethane)
Column	J&W Scientific HP-5MS, 30 m x 0.25 mm ID, 0.25-μm film thickness
Carrier Gas	Helium at 1.0 mL/min
Oven Program	35°C, hold 2 min; ramp @ 10°C/min to 310°C, hold 2 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	35 – 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



07/13/06 #2223 RT: 11.51 AG: 1 NL: 157 BS

T: (00) s: 01 m: 30.000 F: 1.00 [20.00-20.00]



NIST Reference Mass Spectrum

