

Chemical Information:

Name: 3-Acetyl-2,5-dimethylfuran
CAS No.: 10599-70-9 Supplier: Sigma-Aldrich
Tox21_ID No.: Tox21_200275 Lot No.: 02512JE
NTP_CID No.: 318 MW: 138.16 g/mol

Date of Analysis: 16 February 2009

Purity and Identity Results:

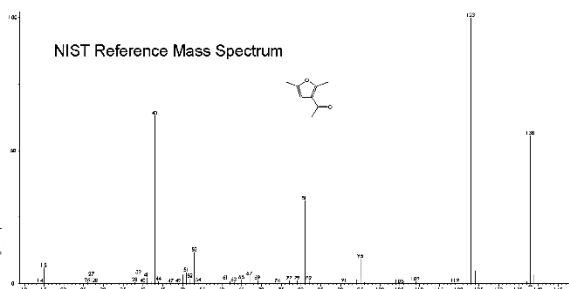
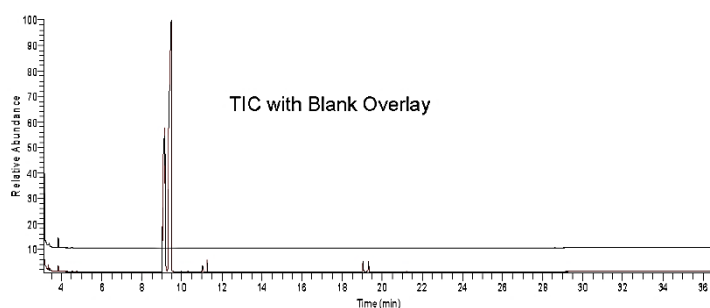
Peak Identity	Retention Time (min)	Purity (% Total Area) ^a
3-Acetyl-2,5-dimethylfuran	9.17	32.70
3-Acetyl-2,5-dimethylfuran	9.47	64.18
unknown	11.04	0.56
unknown	11.26	0.61
unknown	19.04	0.77
unknown	19.31	0.52

^a Peaks comprising ≥ 0.5% of total area.

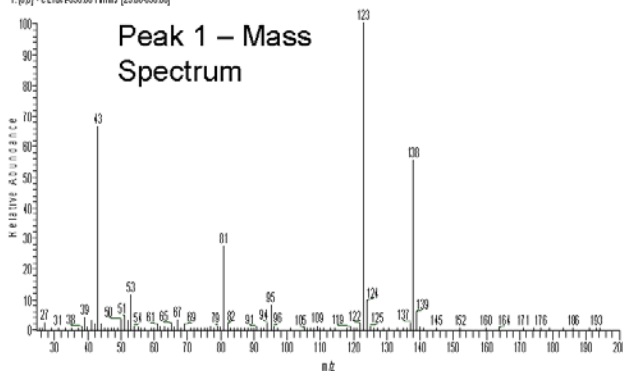
Combined purity of peaks identified as 3-acetyl-2,5-dimethylfuran: 96.88%

GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Methanol
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 7 min
Source Temperature	250°C
Auxiliary Temperature	250°C
Scan Range	25 – 350 amu
Injector Temperature	250°C
Injection Volume / Mode	1 μL / Split (10:1)
Run Time	36.5 minutes
Data Analysis Software	Xcalibur, v 1.2 and NIST Library v 2.0, build 7/23/2008



00b16f104720 RT:9.00 Min:1 SR:2.897,923 NL:531E5
T: [00] + c: Eide#35000 Files: [2500-35000]



00b16f104754 RT:9.28 Min:1 SR:2.925,936 NL:304E5
T: [00] + c: Eide#35000 Files: [2500-35000]

