

### Chemical Information:

Name: Tolbutamide  
CAS No.: 64-77-7  
Tox21\_ID No.: Tox21\_201612  
NTP\_CID No.: 1352

Supplier: Sigma-Aldrich  
Lot No.: 055K0904  
MW: 270.35 g/mol

Date of Analysis: 17 April 2007

### Purity and Identity Results:

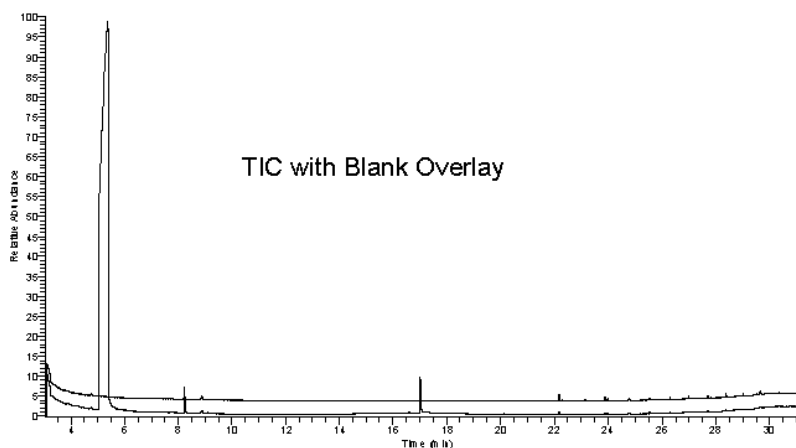
Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
DMSO	5.39	Not applicable
Tolbutamide	17.01	97.22
unknown	20.76	0.66
unknown	22.58	1.16
unknown	22.69	0.73

<sup>a</sup> Peaks comprising ≥ 0.5% of total area.

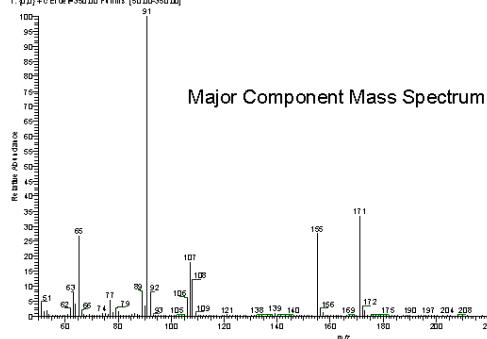
### GC/MS Instrument Parameters:

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

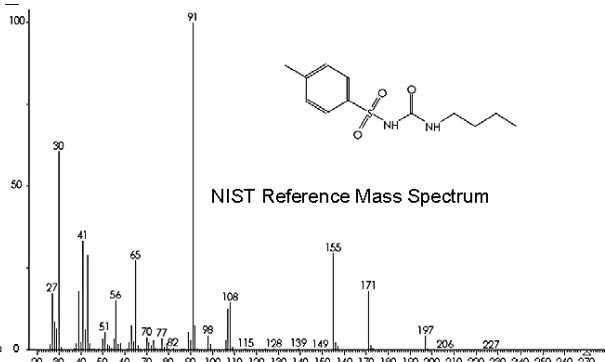
RT: 3.05 - 31.49 SM: 30



07/01/10 #1651 RT: 17.01 MS: 2 16.94, 17.10 NL: 9.605  
T: 0.02 + 0.01 - 0.00 P: 0.00 F: 0.00 S: 0.00



Major Component Mass Spectrum



NIST Reference Mass Spectrum