

### Chemical Information:

Name: Barbitol, sodium  
CAS No.: 144-02-5  
Tox21\_ID No.: Tox21\_200862  
NTP\_CID No.: 4046

Supplier: Sigma Aldrich  
Lot No.: 018K0815  
MW: 206.17 g/mol

Date of Analysis: 26 August 2015

### Purity and Identity Results:

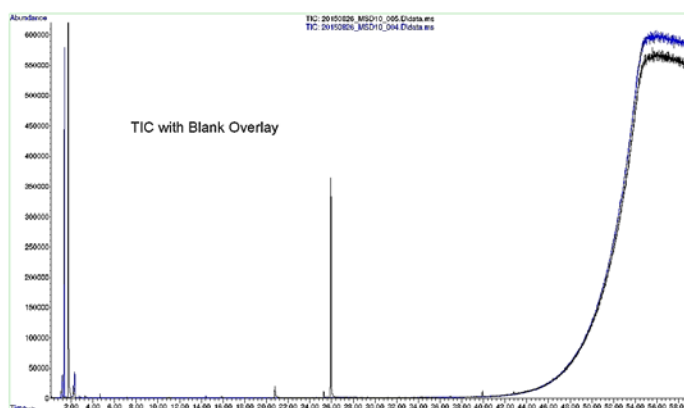
Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Dichloromethane	1.70	Not applicable
Barbitol, sodium <sup>b</sup>	25.94	100.00

<sup>a</sup> Peaks comprising  $\geq 0.5\%$  of total area.

<sup>b</sup> Barbitol identified by GC/MS

### GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Methanol (~ 400 µg/mL)
Column	Restek Rtx-5MS, 30 m x 0.25 mm ID, 1-µm film thickness
Carrier Gas	Helium at 2 mL/min
Oven Program	50°C, hold 0 min; ramp @ 5°C/min to 320°C, hold 5 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	40 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 µL / Split (10:1)
Run Time	59 minutes
Data Analysis Software	MassHunter GC/MS Acquisition B.07.02.1938 / Chemstation Enhanced Data Analysis F.01.01.2317 / NIST Library Version 2.2 Build 2014



Mass spectra for observed peaks other than the major component contain ions such as  $m/z$  73, 135/147, 207, 253, 281, 341, consistent with column/septum bleed.

