

# Chemical Information:

Name: Anthrone  
CAS No.: 90-44-8  
Tox21\_ID No.: Tox21\_202949  
NTP\_CID No.: 6574

Supplier: Sigma-Aldrich  
Lot No.: BCB5904V  
MW: 194.23 g/mol

Date of Analysis: 14 December 2016

## Purity and Identity Results:

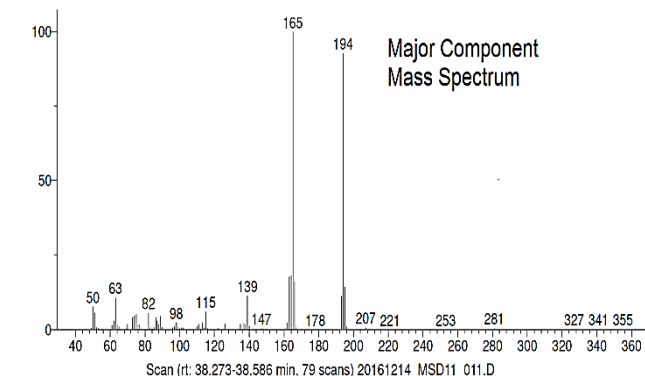
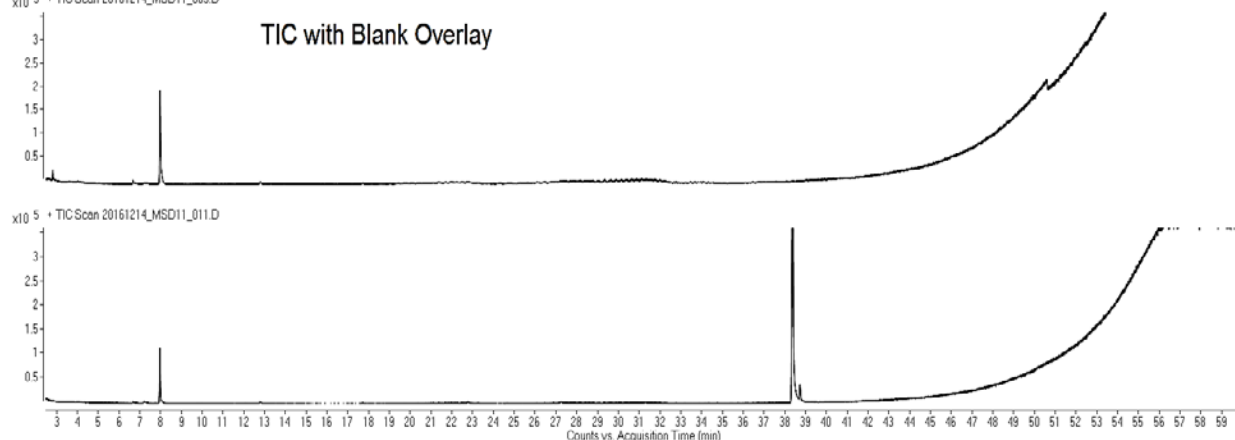
Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
Unknown	22.79	0.65
Unknown	27.25	0.60
Anthrone	38.38	95.77
9,10-Anthracenedione	38.74	2.99

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

## GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Acetone
Column	Rtx-5 MS, 30 m x 0.25 mm ID, 1- $\mu$ m film thickness
Carrier Gas	Helium at 1.5 mL/min
Oven Program	50°C, hold 2 min; ramp @ 5°C/min to 315°C, hold 5 min
Source Temperature	230°C
Auxiliary Temperature	250°C
Scan Range	40 – 380 amu
Injector Temperature	250°C
Injection Volume / Mode	1 $\mu$ L / Splitless
Data Analysis Software	MassHunter GC/MS Acquisition B.07.02.1938 / MassHunter Qualitative Analysis B.07.00 Build 7.0.7024.0 / NIST Library Version 2.2f Build 2014

x10<sup>5</sup> • TIC Scan 20161214\_MSD11\_003.D



HR 1: Anthrone  
C14H10O; MF: 873; RMF: 881; Prob 40.3%; CAS: 90-44-8; Lib: replib; ID: 23898.

