

### Chemical Information:

Name: Xylenes (mixed)  
CAS No.: 1330-20-7  
Tox21\_ID No.: Tox21\_200292  
NTP\_CID No.: 1401

Supplier: Sigma-Aldrich  
Lot No.: 08957JD  
MW: 106.17 g/mol

Date of Analysis: 12 June 2009

### Purity and Identity Results:

Peak Identity <sup>a</sup>	Retention Time (min)	Purity (% Total Area) <sup>b</sup>
Ethyl benzene	6.30	23.24
p-Xylene	6.44	62.63
o-Xylene and m-Xylene	6.88	14.13

<sup>a</sup> Per CoA; mixture of 75.9% xylene isomers and 23.1% ethyl benzene

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

### 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- $\mu$ m 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	230°C
Auxiliary Temperature	250°C
Scan Range	25 – 500 amu
Injector Temperature	250°C
Injection Volume / Mode	1 $\mu$ L / Split (100:1)
Run Time	36.5 minutes
Data Analysis Software	MSD Chemstation, v D.03.00.SP1 and NIST Library v 2.0f, build 10/8/2008

