

### Chemical Information:

Name: 2,4- & 2,6-Toluene diisocyanate  
 CAS No.: 26471-62-5 Supplier: TCI America  
 Tox21\_ID No.: Tox21\_200144 Lot No.: AGM01  
 NTP\_CID No.: 2056 MW: 174.16 g/mol

Date of Analysis: 31 March 2010

### Purity and Identity Results:

Peak Identity	Retention Time (min)	Purity (% Total Area) <sup>a</sup>
2,4-Toluene diisocyanate	14.08	100.00

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

Note: The CoA indicates this is a mixture of 80% 2,4- and 20% 2,6-tolylene diisocyanate. A single major component was observed in the analysis; based on the mass spectrum, the component was identified as 2,4-toluene diisocyanate.

### GC/MS Instrument Parameters:

Instrument / Ionization	Gas Chromatograph with Mass Spectrometer / Electron Impact
Solvent	Dichloromethane
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)
Data Analysis Software	MSD Chemstation, v D.03.00.SP1 and NIST Library v 2.0f, build 10/8/2008

