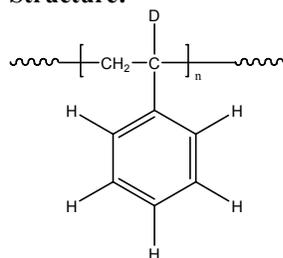


**Sample Name: Deuterated Polystyrene (d1)**

**Sample #: P6045-d1PS**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
60.0	1.03

**Synthesis Procedure:**

Deuterated polystyrene-d1 is obtained by living polymerization of styrene-d1.

**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used.

**Solubility:**

Deuterated polystyrene-d<sub>3</sub> is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC profile of the product:**

