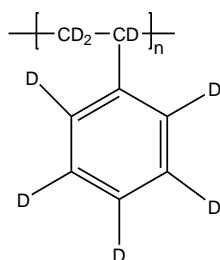


**Sample Name: Deuterated Polystyrene (d<sub>8</sub>)**

**Sample #: P3586F1A-dPS**

**Structure:**

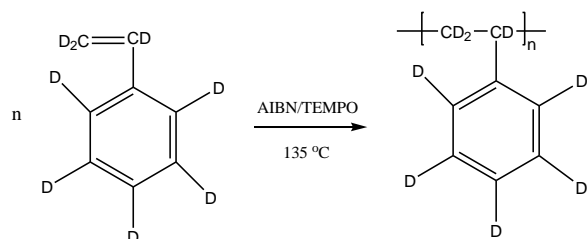


**Composition:**

| Mn x 10 <sup>3</sup> | PDI  |
|----------------------|------|
| 1,452.0              | 1.19 |

**Synthesis Procedure:**

Deuterated polystyrene-d<sub>8</sub> is obtained by controlled radical polymerization of styrene-d<sub>8</sub> as illustrated below:



**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 light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

**Solubility:**

Deuterated polystyrene-d<sub>8</sub> is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC elugram of Homopolymer:**

Agilent GPC/SEC Software

