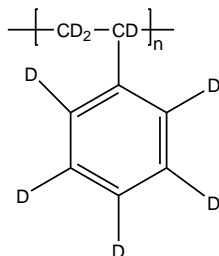


Sample Name: **Deuterated Polystyrene (d<sub>5</sub>)**

Sample #: **P42518-d5PS**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
1.6	1.02

**Synthesis Procedure:**

Deuterated polystyrene-d<sub>5</sub> is obtained by living anionic polymerization of styrene-d<sub>5</sub> monomer.

**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>5</sub> is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC profile of Homopolymer:**

