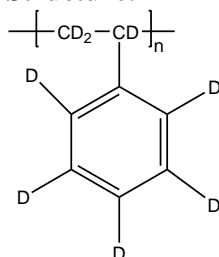


**Sample Name: Deuterated Polystyrene (d<sub>8</sub>)**  
**Completely deuterated including initiator**

**Sample #: P41832B-dPS**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
6.5	1.04

**Synthesis Procedure:**

Deuterated polystyrene-d<sub>8</sub> is obtained by living anionic polymerization of styrene-d<sub>8</sub>.

**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>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

