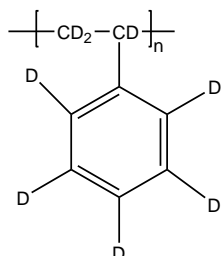


Sample Name: Deuterated Polystyrene (d<sub>8</sub>)

Sample #: P44212C-dPS

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
445.0	1.55

**D atom: +98**

**Synthesis Procedure:**

Deuterated polystyrene-d<sub>8</sub> is obtained by living anionic polymerization of styrene-d<sub>8</sub>. D8Styrene bears D atom % over 98.

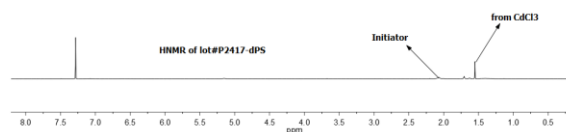
**Characterization:**

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.

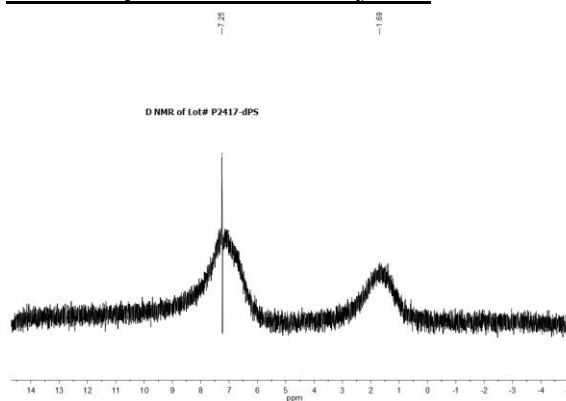
**Solubility:**

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.

**HNMR spectrum of the Polymer:**



**D NMR spectrum of the Polymer:**



**SEC elugram of Homopolymer:**

