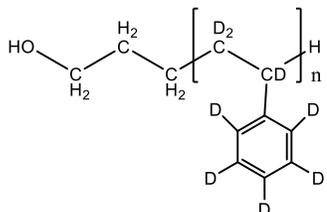


**Sample Name:** Deuterated Poly(styrene-d8),  $\omega$ -hydroxy-terminated

**Sample #:** P43540-dPSOH

**Structure:**

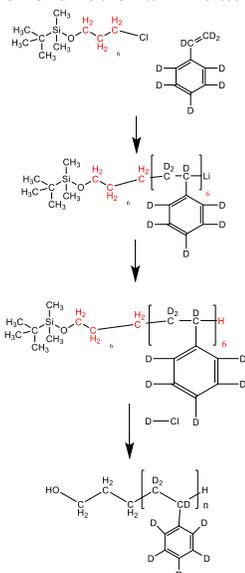


**Composition:**

$M_n \times 10^3$	PDI
0.6	1.08

**Synthesis Procedure:**

$\omega$ -Hydroxy Terminated deuterated polystyrene was prepared by living anionic polymerization of deuterated styrene using a monofunctional initiator.



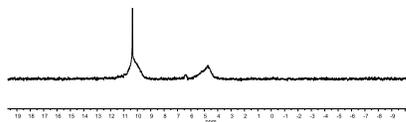
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and H NMR and DNMR data analysis. The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

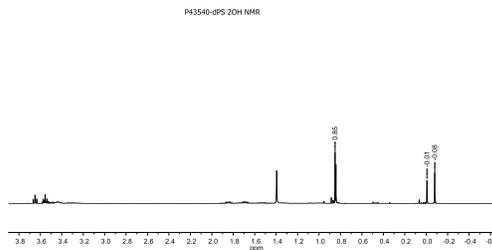
**Solubility:**

Polymer is soluble in toluene, THF, and  $\text{CHCl}_3$ . It can be precipitated in water, and cold methanol.

**DNMR spectrum of the polymer:**



**HNMR spectrum of the polymer:**



**SEC elugram of the Sample:**

