

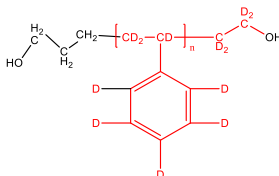
# Product Profile

## Identification

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

**Sample #:** P44529D-dPS2OH

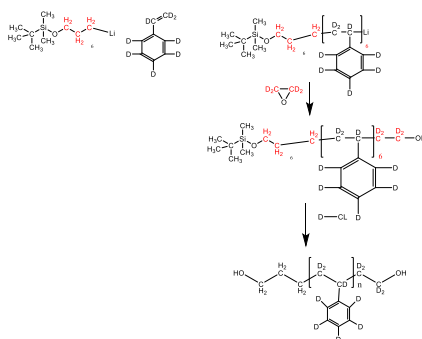
**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	Mw/Mn (PDI)
2.0	1.17

## Method of Synthesis:



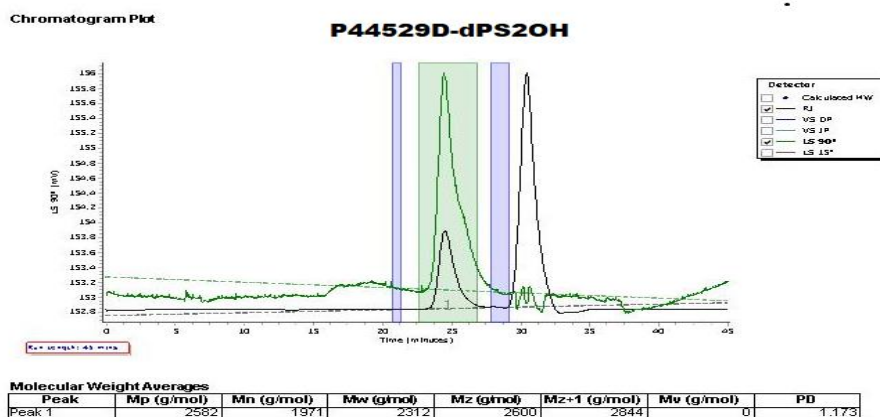
**Solubility in different solvents**

THF	✓		
CHCl <sub>3</sub>	✓		
Toluene	✓		

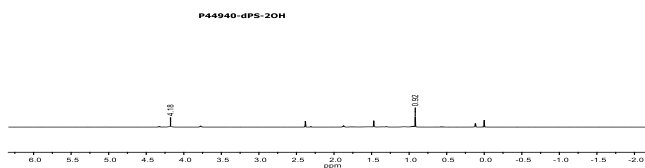
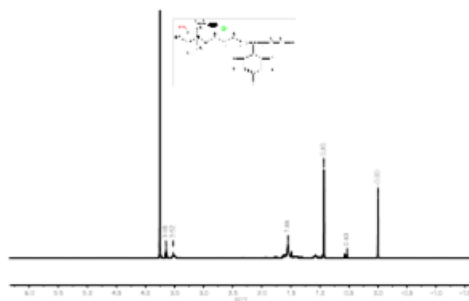
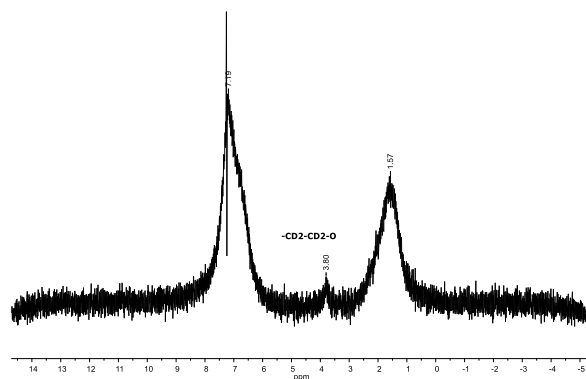
**Purification of Polymer:** to remove cleaved (CH<sub>3</sub>)<sub>3</sub>SiOH

## Validation of Architecture:

### A. Gel Permeation Chromatography (GPC), SEC- Profile



**B. NMR (HNMR) and DNMR spectrum of polymer:**



**C. DSC results:**

