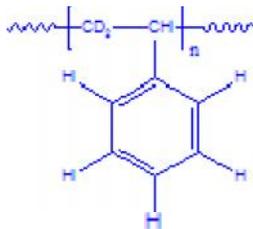


Sample Name: Deuterated Polystyrene (d<sub>2</sub>)

Sample #: P2896-d2PS

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
53.0	1.04

**Synthesis Procedure:**

Deuterated polystyrene-d<sub>2</sub> is obtained by living anionic polymerization of styrene-d<sub>2</sub>.

**Characterization:**

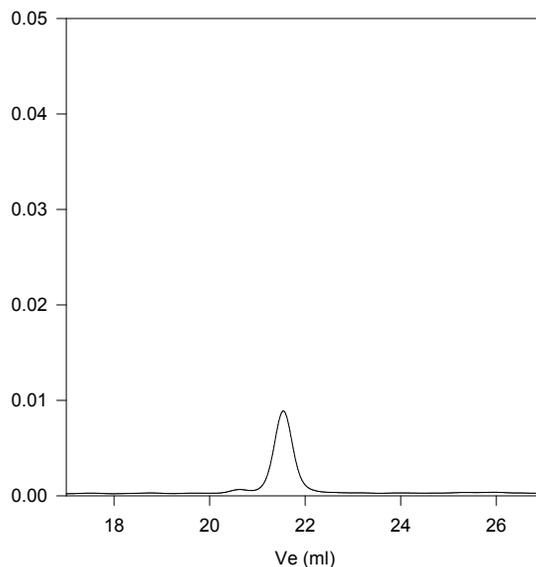
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used.

**Solubility:**

Deuterated polystyrene-d<sub>3</sub> is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC profile of the product:**

**P2896-d2PS**



Size exclusion chromatograph of deuterated polystyrene-d<sub>2</sub>  
M<sub>n</sub>=53000, M<sub>w</sub>=55100, PI=1.04