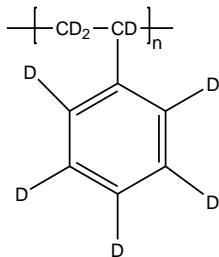


Sample Name: **Deuterated Poly(styrene-d8)**

Sample #: **P43291A-dPS**

**Structure:**



**Composition:**

|                   |      |
|-------------------|------|
| $M_n \times 10^3$ | PDI  |
| 30.5              | 1.95 |

**Synthesis Procedure:**

Deuterated polystyrene- $d_8$  is obtained by free radical polymerization process.

**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- $d_8$  is soluble in DMF, THF, toluene and  $CHCl_3$ . It precipitates from methanol, ethanol, water, and hexanes.

**SEC elugram of Homopolymer:**

