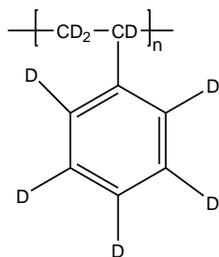


Sample Name: Deuterated Polystyrene (d<sub>8</sub>)

Sample #: P19910F-dPS

Structure:

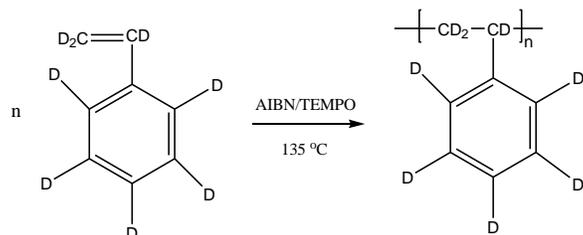


Composition:

Mn x 10 <sup>3</sup>	PDI
1,021.0	1.14

Synthesis Procedure:

Deuterated polystyrene-d<sub>8</sub> is obtained by controlled radical polymerization of styrene-d<sub>8</sub> as illustrated below:



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 light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

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.

SEC elugram of Homopolymer:

Agilent GPC/SEC Software

