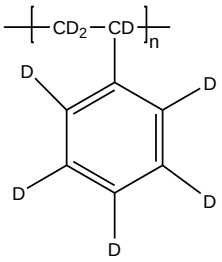
Sample Name: **Deuterated Poly(styrene-d8)**

Sample #: **P43291H-dPS**

Structure:



Composition:

Mn x 10^3	PDI
70.0	1.13

Synthesis Procedure:

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

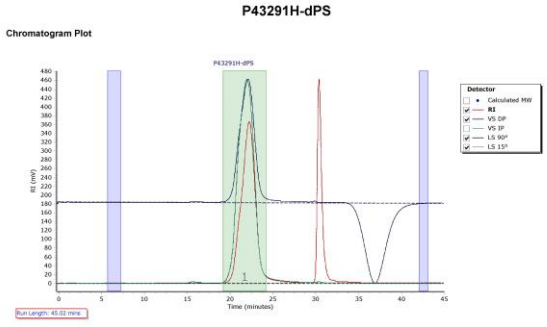
Characterization:

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:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	69497	70150	79178	89706	101701	87637	1.129