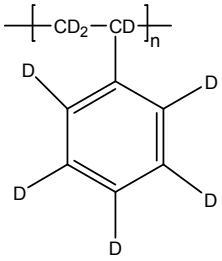
Sample Name: **Deuterated Polystyrene-d_8**

Sample #: **P14901-dPS**

Structure:

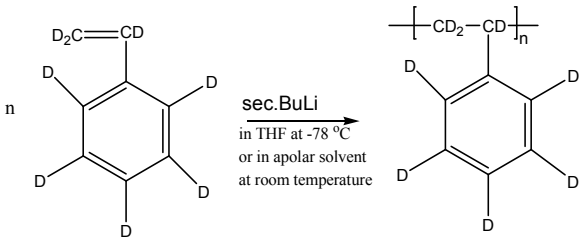


Composition:

Mn x 10^3	127.0
Mw x 10^3	144.0
PDI	1.13

Synthesis Procedure:

Deuterated polystyrene-d_8 is obtained by anionic living polymerization of styrene-d_8 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.

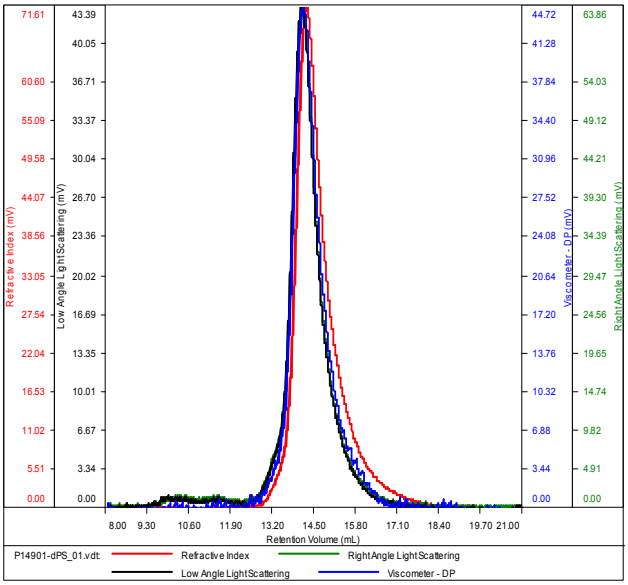
Solubility:

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

SEC of deuterated polystyrene:

SAMPLE ID: P14901-dPS

Conc (mg/mL)	1.4629
dn/dc (mL/g)	0.1650
Method	ps80k-July292015-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14901-dPS_01.vdt	127,060	143,840	147,189	1.132	0.3795