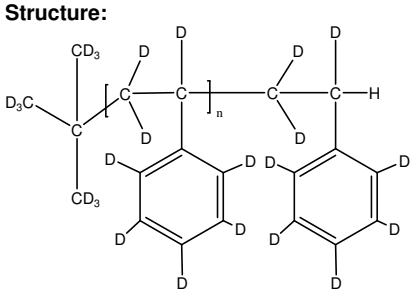
Sample Name: **Deuterated Polystyrene (d_8)**
Initiatiated by d9 tert.butyl lithium
Sample #: **P18791-dPS**

Structure:



Composition:

Mn x 10^3	PDI
6.0	1.08

Synthesis Procedure:
Deuterated polystyrene-d_8 is obtained by living anionic polymerization of styrene-d_8 using d9 tert.butyl lithium initiator

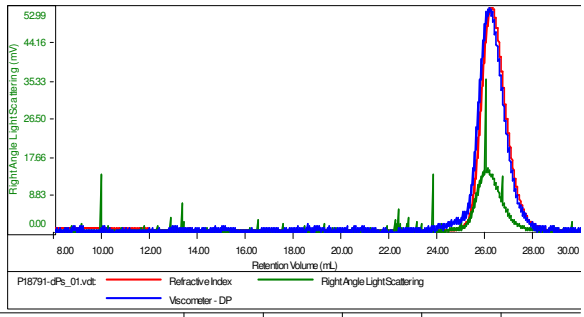
Characterization:
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000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

Sample ID: P18791-dPS

Concentration (mg/mL)	0.7677
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-July11-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18791-dPs_01.vdt	6,048	6,549	6,106	1.083	0.4687