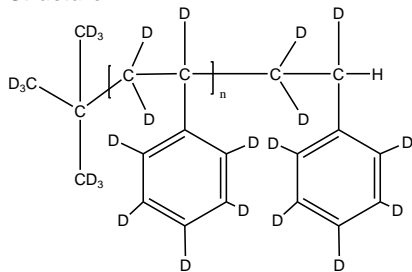


Sample Name: Deuterated Polystyrene (d_8)
Initiated by d9 tert.butyl lithium
Sample #: P18523-dPS

Structure:**Composition:**

Mn x 10 ³	PDI
3.3	1.16

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

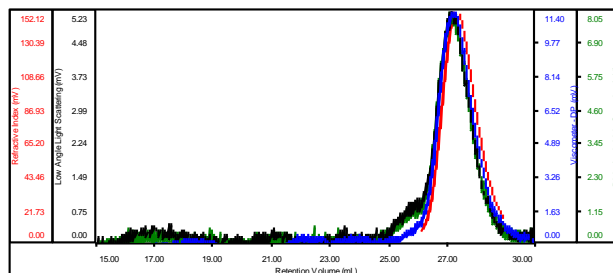
Characterization:

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.

Concentration (mg/mL)	3.1863
Sample dn/dc (mL/g)	0.1700
Method File	PS80K-Feb25-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18523-dPs_tBuLi_d9_01.vcl	3,291	3,816	3,543	1.159	0.1066

SEC of Homopolymer: