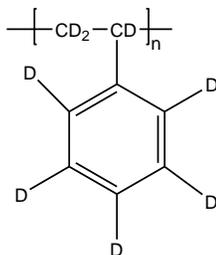


Sample Name: Deuterated Polystyrene (d₈)

Sample #: P44212B-dPS

Structure:



Composition:

Mn x 10 ³	PDI
622.0	1.31

D atom: +98

Synthesis Procedure:

Deuterated polystyrene-d₈ is obtained by living anionic polymerization of styrene-d₈. **D8Styrene bears D atom % over 98.**

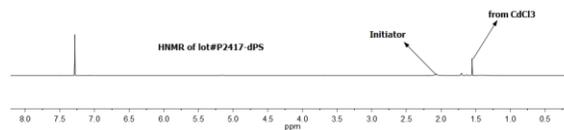
Characterization:

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.

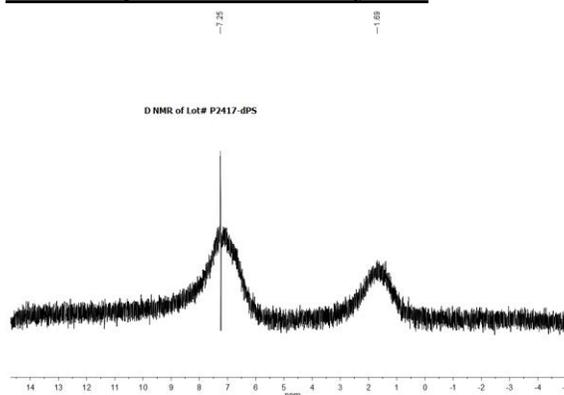
Solubility:

Deuterated polystyrene-d₈ is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water, and hexanes.

HNMR spectrum of the Polymer:



D NMR spectrum of the Polymer:



SEC elugram of Homopolymer:

