

Sample Name: random copolymer of deuterated styrene (d8) and partially Deuterated (d7) 4-methoxy styrene.

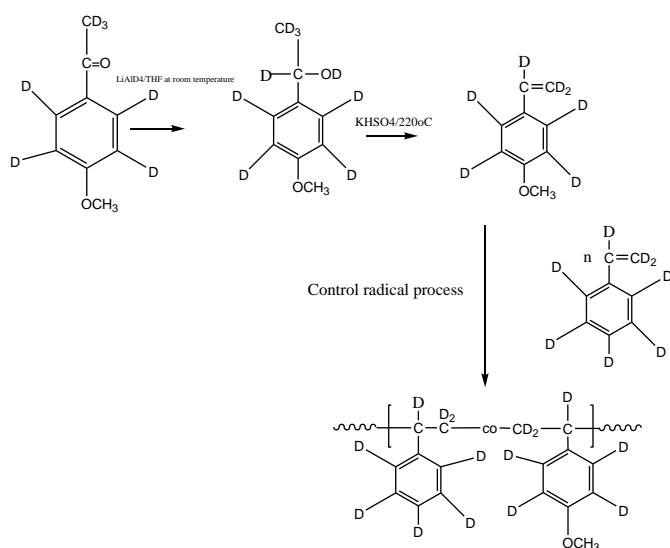
**Sample #:** **P8186-dPS4MeOSran**

**Composition:**

Mn x 10 <sup>3</sup>	PDI
77.0	1.15

**Synthesis Procedure:**

Partially deuterated 4 methoxy styrene monomer was synthesis. The copolymerization was carried out by control radical process.



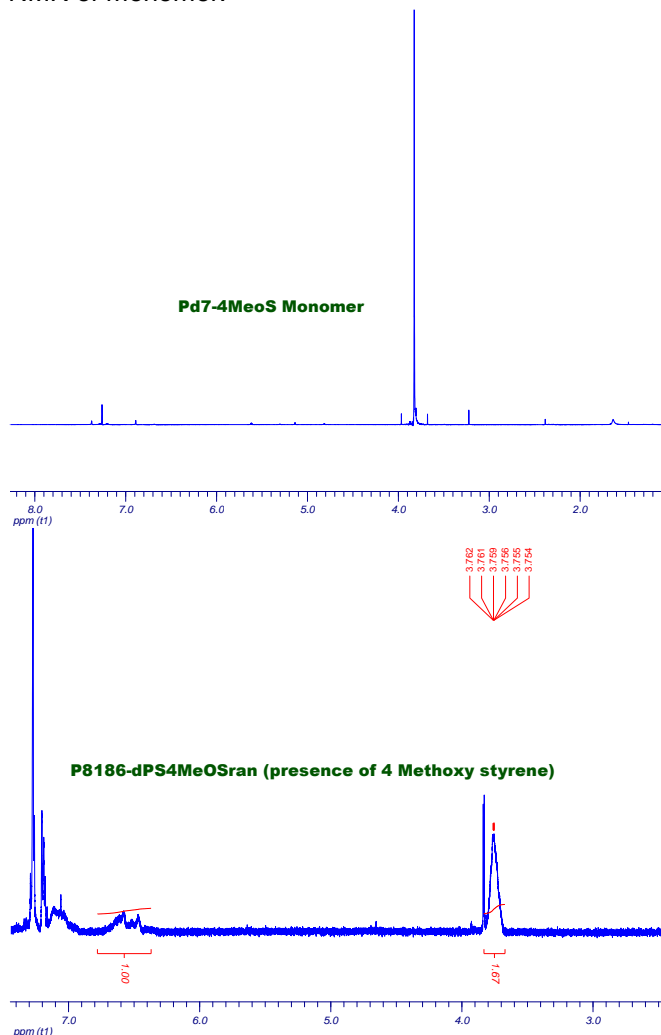
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

**Solubility:**

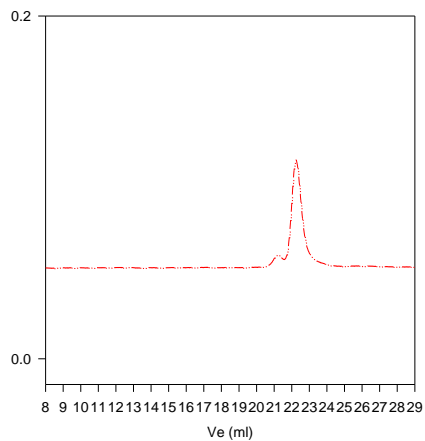
Deuterated polymer is soluble in THF, chloroform, and toluene. The polymer is insoluble methanol and water.

NMR of monomer:



**SEC of Sample:**

**P8186-dPS4MeOSran**



--- Random copolymer of deuterated styrene and partially deuterated 4 methoxy styrene (d7)  
M<sub>n</sub>=77000, M<sub>w</sub>=88500, PI=1.15  
d7MeOS: 5 wt% by FTIR analysis