

Sample Name: Partially Deuterated (d7) Poly(4-methoxy styrene)

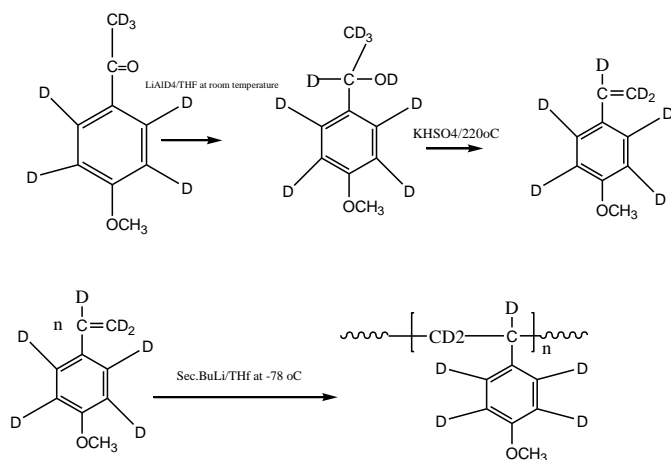
Sample #: P8117A-d7P4MeOS

Composition:

Mn x 10 ³	PDI
0.9	1.3

Synthesis Procedure:

Deuterated monomer synthesis and its polymerization :



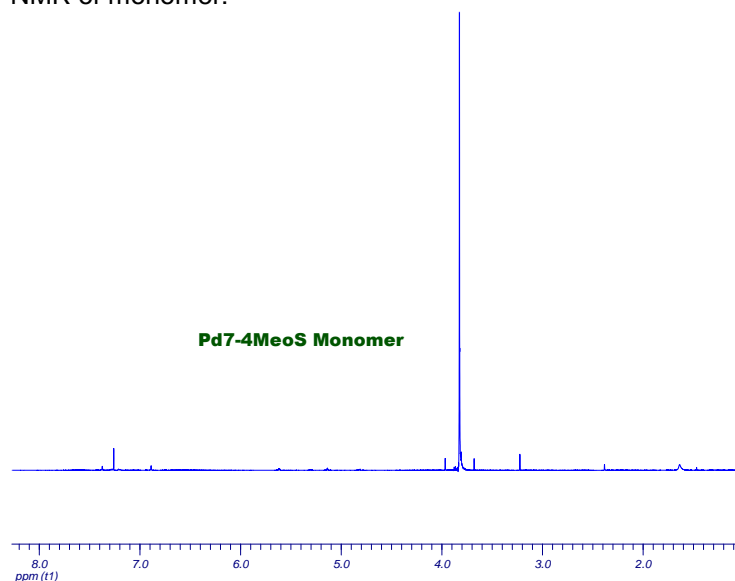
Characterization:

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

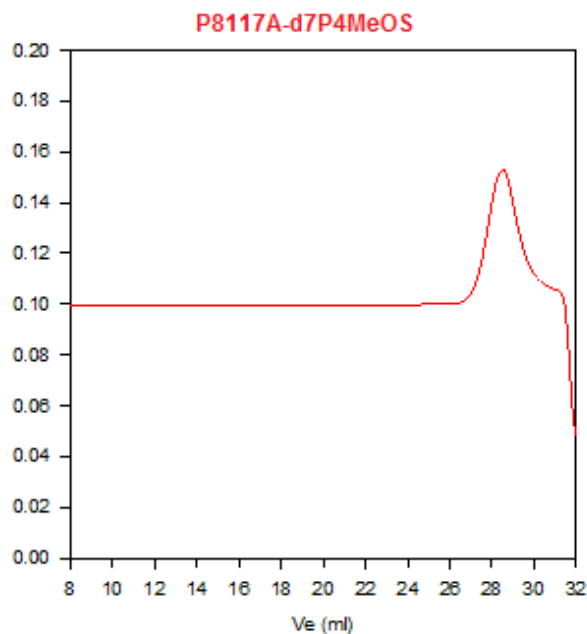
Solubility:

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

NMR of monomer:



SEC of Sample:



Size exclusion chromatograph of deuterated-(d7) poly 4-methoxystyrene :

M_n=900, M_w=1200 PDI=1.3