

Sample Name: Partially Deuterated (d1) Poly(4-methoxy styrene)

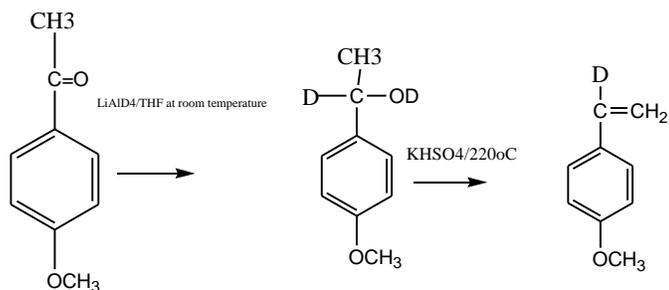
Sample #: P8121F1-d1P4MeOS

Composition:

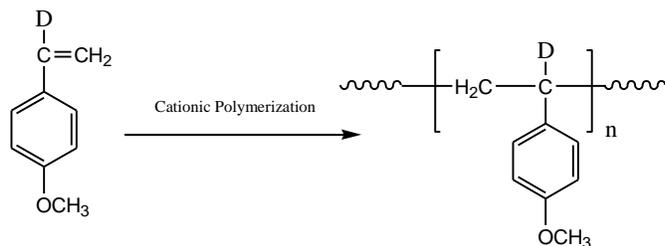
Mn x 10 ³	PDI
122.0	1.4

Synthesis Procedure:

Deuterated monomer synthesis:



Cationic Polymerization in THF.



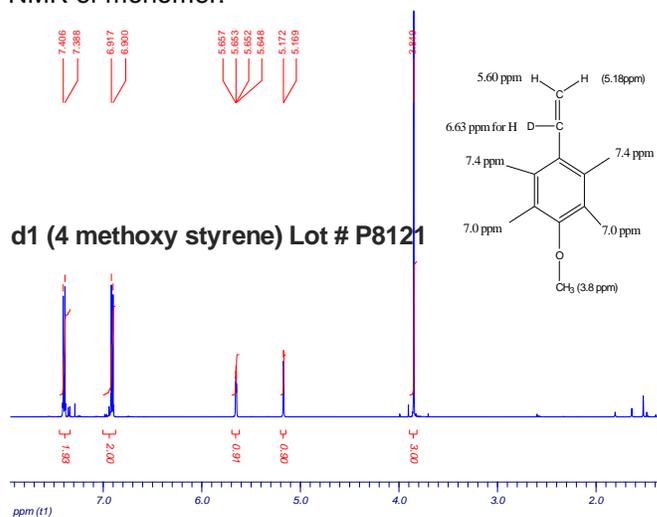
Characterization:

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

Solubility:

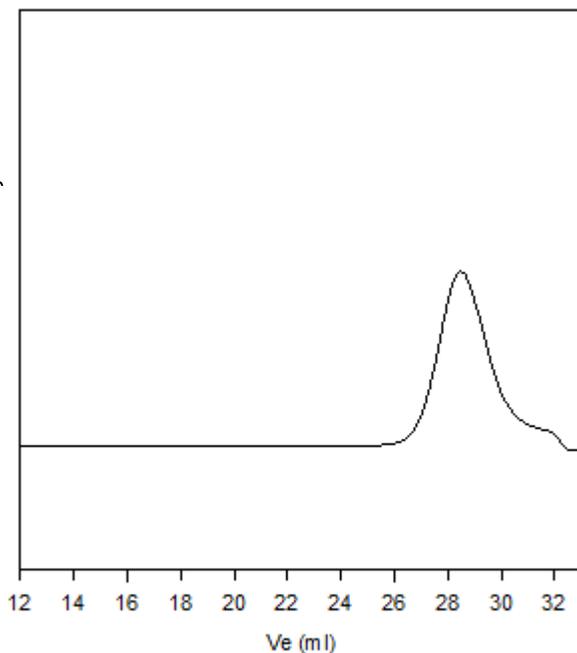
Deuterated polymer is soluble in THF, chloroform, and toluene. The polymer is in soluble methanol and water.

NMR of monomer:



SEC of Sample:

P8121F1-d1P4MeOS



Size exclusion chromatography of Partially deuterated (d1)poly(4-methoxy styrene):
M_n=800, M_w=1000, PI=1.2