

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

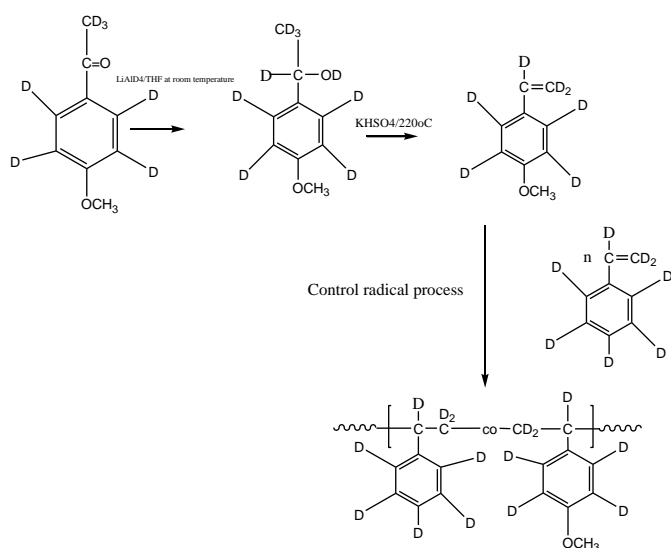
Sample #: **P8187-dPS4MeOSran**

Composition:

Mn x 10 ³	PDI
9.5	1.10

Synthesis Procedure:

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



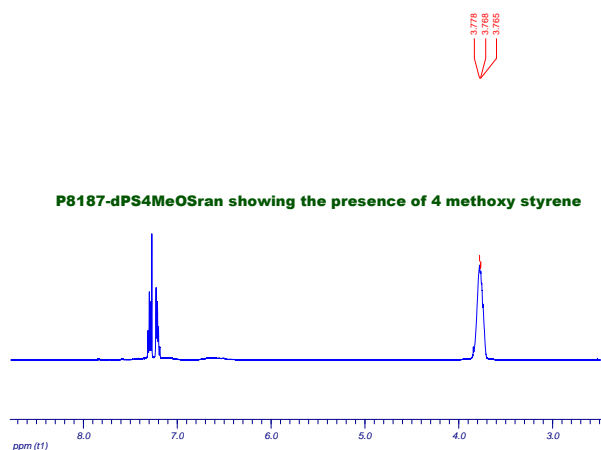
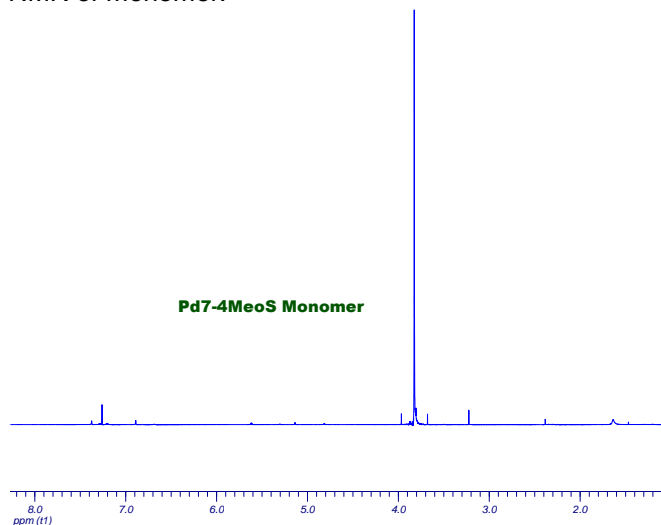
Characterization:

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

Solubility:

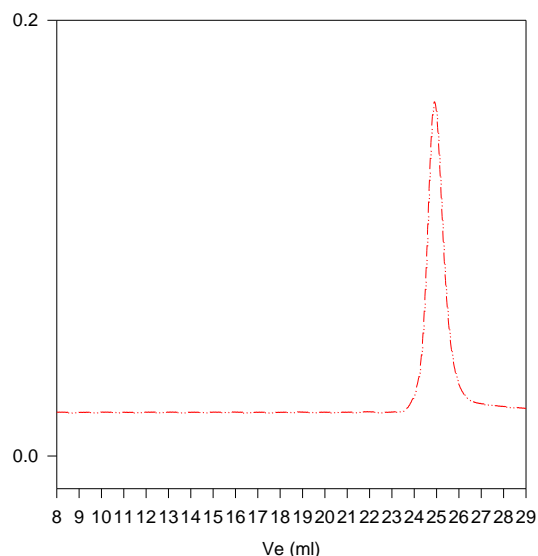
Deuterated polymer is soluble in THF, chloroform, and toluene. The polymer is insoluble methanol and water.

NMR of monomer:



SEC of Sample:

P8187-dPS4MeOSran



--- Random copolymer of deuterated styrene and partially deuterated 4 methoxy styrene (d7)
M_n=9500, M_w=10500, PI=1.10
d7MeOS: 10 wt% by FTIR analysis