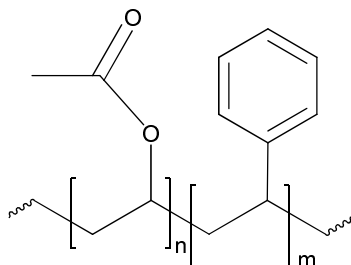
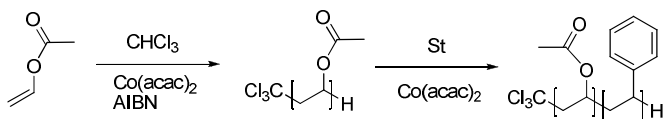


**Sample Name:**Poly(vinyl acetate-*b*-styrene)**Sample #:** P20079-2-VAcS**Structure:****Composition:**

$M_n \times 10^3$ VAc- <i>b</i> -St	PDI
4.0- <i>b</i> -14.0	2.1
VAc:St = 1:2.8 (NMR)	

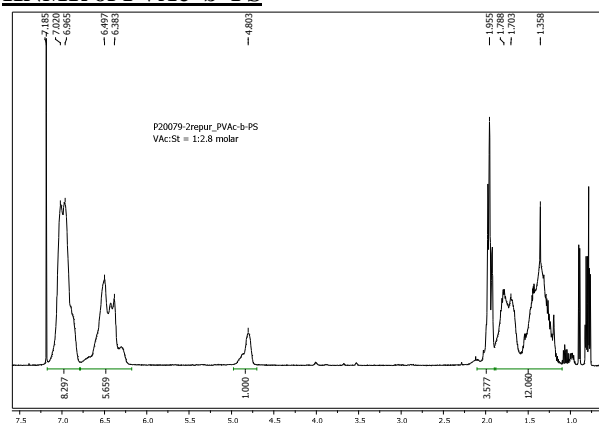
**Synthesis Procedure:**

The product was obtained by successive telomerization of vinyl acetate and styrene using  $\text{CHCl}_3$  as telomer,  $\text{Co(II)}$  acetylacetonate as chain transfer agent and AIBN as a radical initiator, as presented in the Scheme below:

**Characterization:**

Poly(vinyl acetate) was characterized by size-exclusion chromatography (SEC) to estimate  $M_n$  (PS standards) and polydispersity (PDI). NMR was used to confirm the structure.  $M_n$  of PVAc-*b*-PS was estimated from NMR using SEC  $M_n$  of PVAc as a reference, and PDI was estimated from SEC.

The polymer is soluble in THF, Acetone,  $\text{CHCl}_3$  and precipitates from MeOH and Hexane.

**HNMR of PVAc-*b*-PS****SEC of the block copolymer:****P20079-2-VAc-*b*-St**