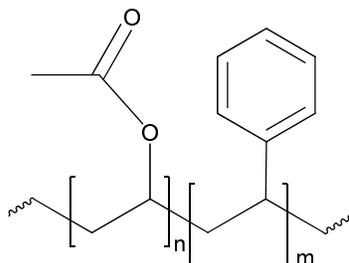


**Sample Name:**  
Poly(vinyl acetate-b-styrene)

**Sample #:** P20079-2-VAcS

**Structure:**

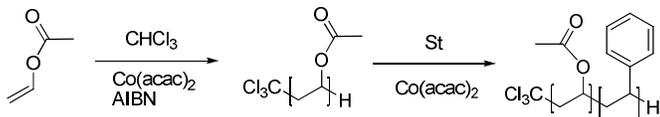


**Composition:**

$M_n \times 10^3$ VAc-b-St	PDI
4.0-b-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,  $\text{Co}(\text{II})$  acetylacetonate as chain transfer agent and AIBN as a radical initiator, as presented in the Scheme below:

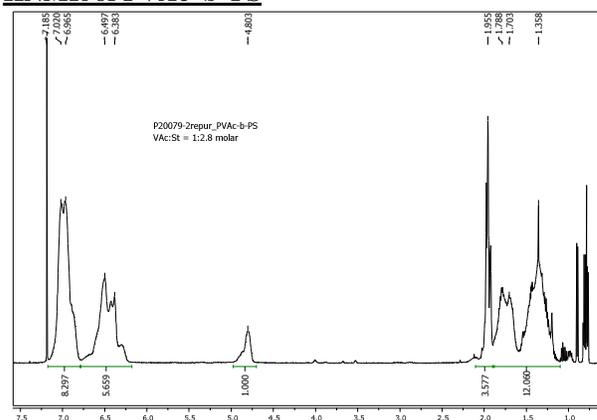


**Characterization:**

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**

