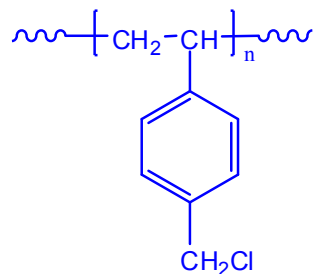


**Sample Name:** Poly(4-vinyl benzyl chloride)

**Sample #:** P10183C-VBC

**Structure:**

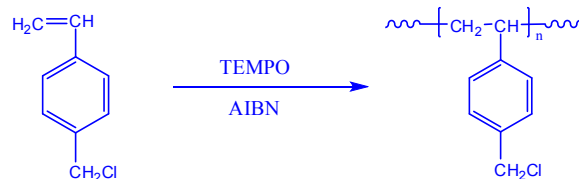


**Composition:**

Mn x 10 <sup>3</sup>	PDI
22.0	3.4

**Synthesis Procedure:**

Poly(vinyl benzyl chloride) is obtained by free radical polymerization of 4-vinyl benzyl chloride or a mixture of 3- and 4-vinyl benzyl chloride. The reaction scheme is shown below.



**Characterization:**

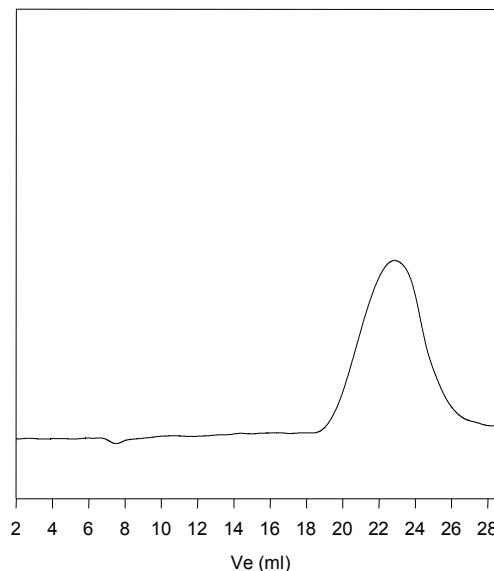
The molecular weight and polydispersity index (PDI) of Poly(vinyl benzyl chloride) are obtained by size exclusion chromatography.

**Solubility:**

Polymer is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC of Homopolymer:**

**P10183C-VBC**



Size Exclusion Chromatography of poly(4-vinyl benzyl chloride):

— M<sub>n</sub> = 22,000, M<sub>w</sub> = 75,000, M<sub>w</sub>/M<sub>n</sub> = 3.4