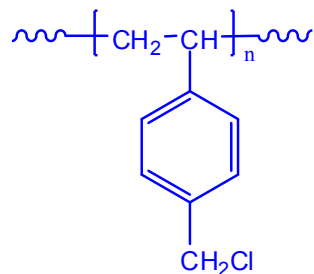


Sample Name: Poly(4-vinyl benzyl chloride)

Sample #: P10183A-VBC

Structure:

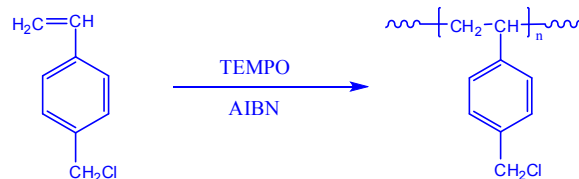


Composition:

$M_n \times 10^3$	PDI
85.0	3.5

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:

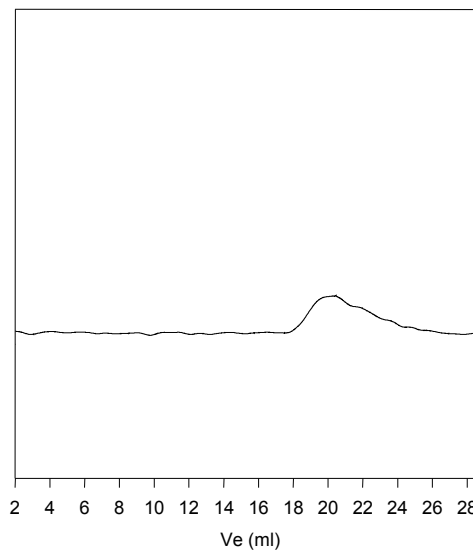
The molecular weight and polydispersity index (PDI) of Poly(vinyl benzyl chloride) are obtained by size exclusion chromatography.

Solubility:

Polymer is soluble in DMF, THF, toluene and CHCl_3 . It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer:

P10183A-VBC



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

— $M_n = 85,000$, $M_w = 298,000$, $M_w/M_n = 3.5$