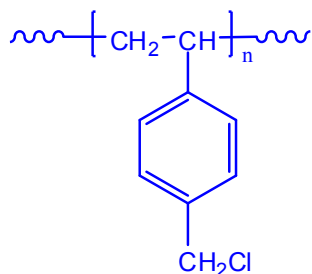


Sample Name: **Poly(4-vinyl benzyl chloride)**

Sample #: **P14493A-VBC**

**Structure:**

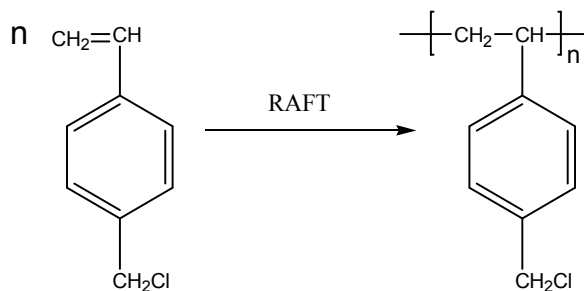


**Composition:**

$M_n \times 10^3$	PDI
11.0	2.0

**Synthesis Procedure:**

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



**Characterization:**

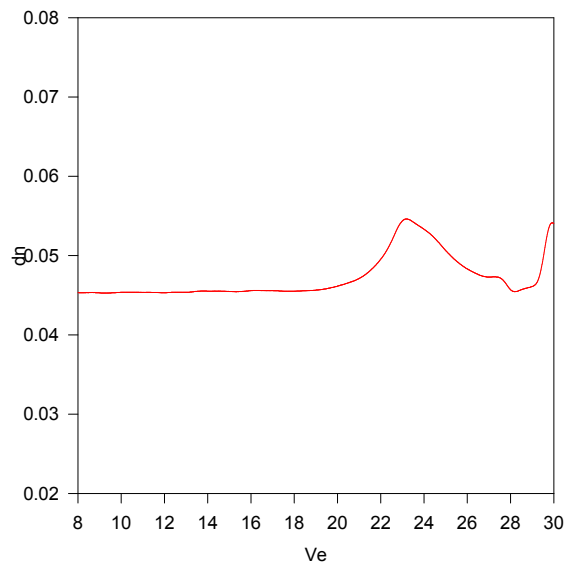
The molecular weight and polydispersity index (PDI) of Poly(vinyl benzyl chloride) are obtained by size exclusion chromatography.

**Solubility:**

Polymer is soluble in DMF, THF, toluene and  $\text{CHCl}_3$ . It precipitates from methanol, ethanol, water and hexane.

**SEC of Homopolymer:**

**P14493A-PVBC**



Size Exclusion Chromatography of Poly(vinyl benzyl chloride)

$M_n=11,000$ ,  $M_w=22,000$ ,  $M_w/M_n=2.0$