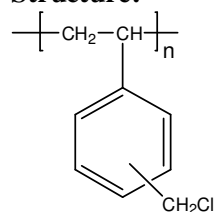


Sample Name: Poly(vinyl benzyl chloride)

Sample #: P19612-VBC

Structure:

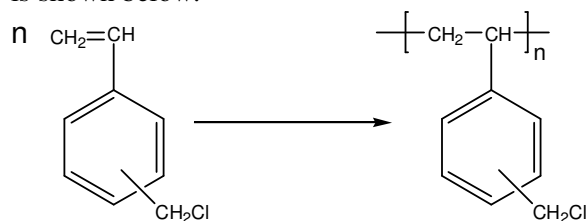


Composition:

$M_n \times 10^3$	PDI
22.5	1.8

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 (SEC).

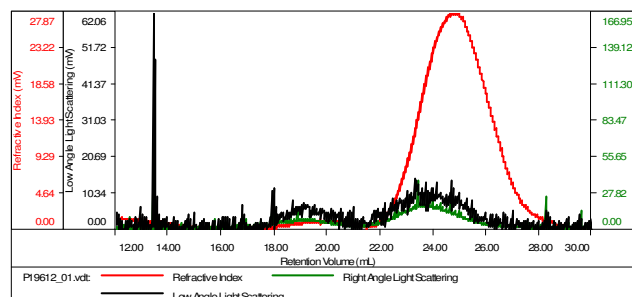
Solubility:

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

SEC of homopolymer:

Sample ID-P19612-4VBC

Concentration (mg/mL)	0.1704
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Nbv-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19612_01.vcl	21,994	39,616	26,892	1.806	5.027