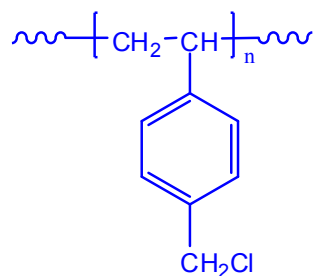


Sample Name: Poly(4-vinyl benzyl chloride)

Sample #: P14492-VBC

Structure:

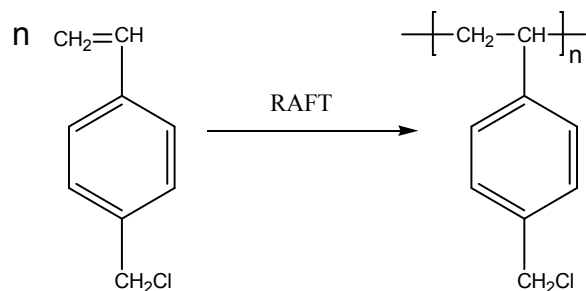


Composition:

Mn x 10 ³	PDI
5.3	1.9

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:

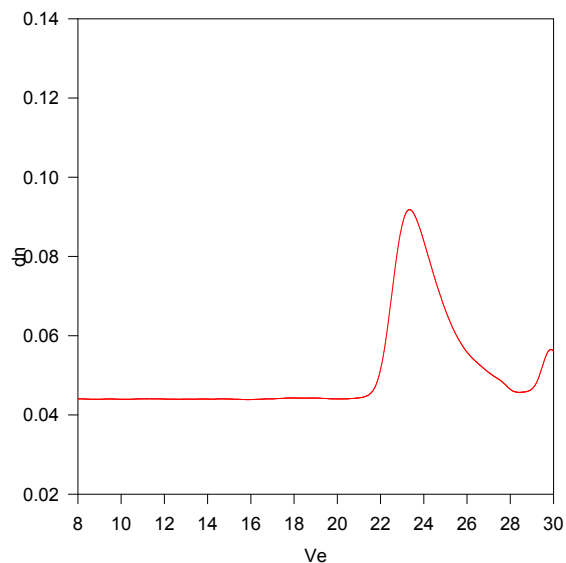
The molecular weight and polydispersity index (PDI) of Poly(vinyl benzyl chloride) are obtained by size exclusion chromatography.

Solubility:

Polymer is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.

SEC of the homopolymer:

P14492-PVBC



Size Exclusion Chromatography of Poly(vinyl benzyl chloride)

M_n=5,300, M_w=10,100, M_w/M_n=1.9