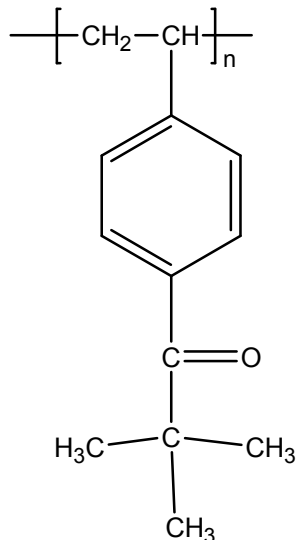


Sample Name:

Poly(4-vinyl tert.butyl benzoate)

Sample #: **P7495-VBAtBuester**

Structure:

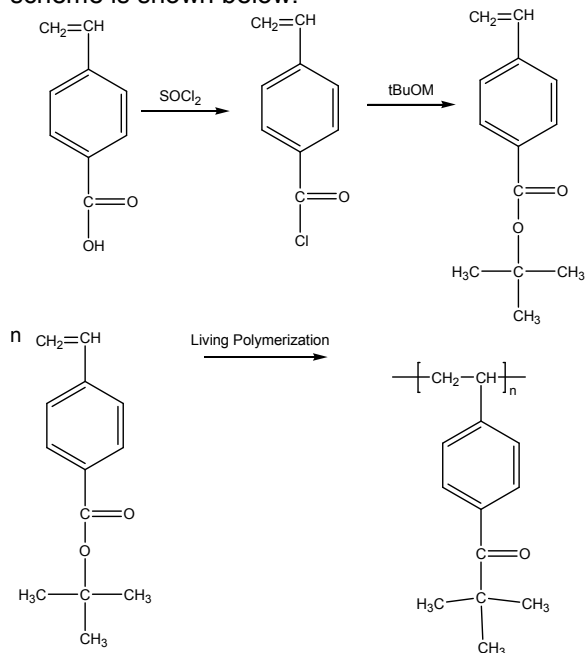


Composition:

$M_n \times 10^3$	PDI
4.5	1.15

Synthesis Procedure:

Poly(4-vinyl benzoic acid) is synthesized by making the t-butyl vinylbenzoate monomer followed by polymerization. The reaction scheme is shown below.



Characterization:

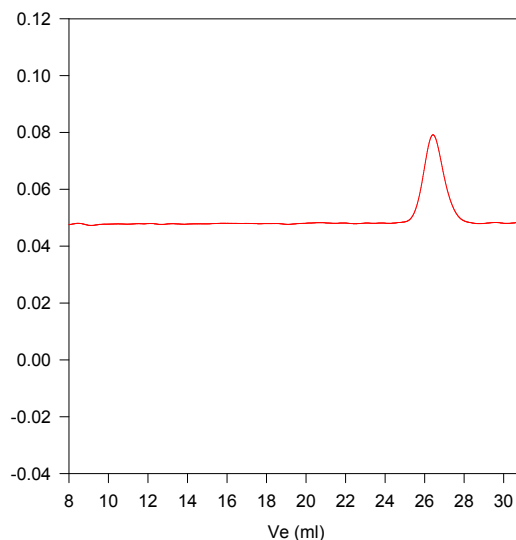
The molecular weight and polydispersity index (PDI) of poly(t-butyl vinylbenzoate) are obtained by size exclusion chromatography.

Solubility:

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

SEC of Homopolymer poly(t-butyl vinylbenzoate):

P7495-4VBZA



Size exclusion chromatograph of the poly ter.butyl vinyl benzoate:
 M_n : 4500 M_w : 4900 M_w/M_n 1.15