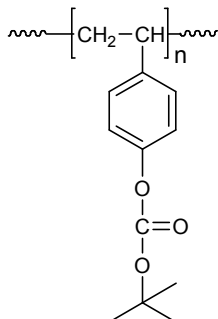


Sample Name:

Poly (4-((tert-butoxycarbonyl)oxy)styrene)

Sample #: **P16116A-4BOCS**

Structure:

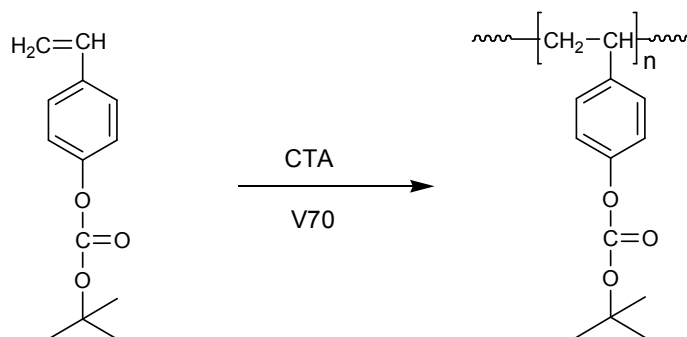


Composition:

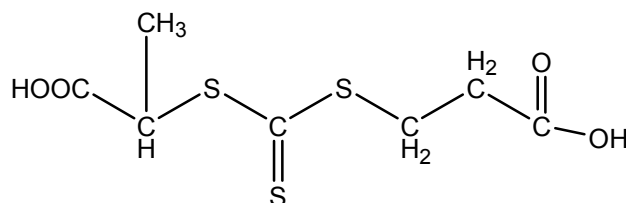
Mn x 10 ³	PDI
31.0	1.18

Synthesis Procedure:

Poly (4-((tert-butoxycarbonyl) oxy) styrene) is synthesized by RAFT polymerization of 4-((tert-butoxycarbonyl) oxy) styrene and the reaction scheme is shown below.



Structure of chain transfer reagent:



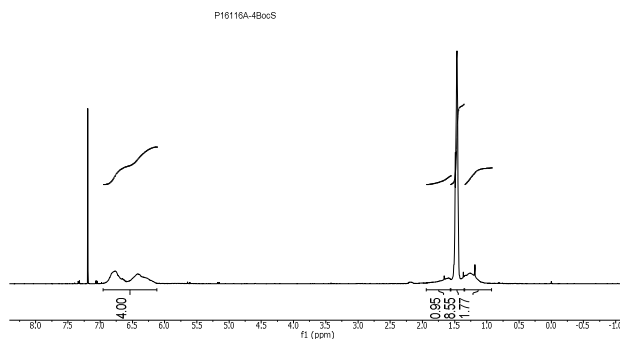
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography in THF.

Solubility:

Poly (4-Boc-styrene) is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.

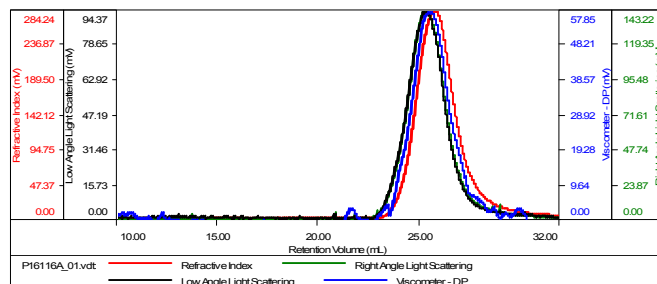
NMR of Homopolymer:



SEC of Homopolymer:

Sample ID: P16116A-4BocS

Concentration (mg/mL)	25.7834
Sample div/c: (mL/g)	0.1850
Method File	PS80K-Oct2016-2-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P16116A_01.vdt	31,133	36,684	1.178	0.1647	34,929