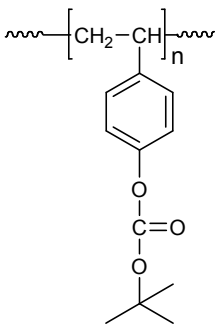


Sample Name:

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

Sample #: P16112-4BOCS

Structure:

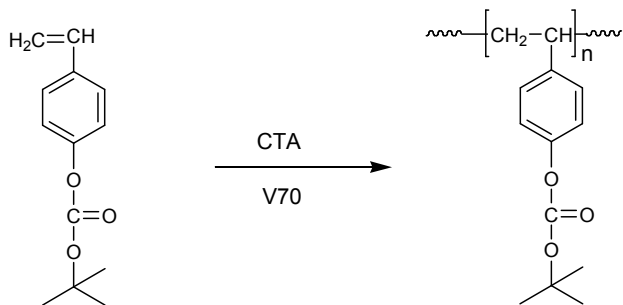


Composition:

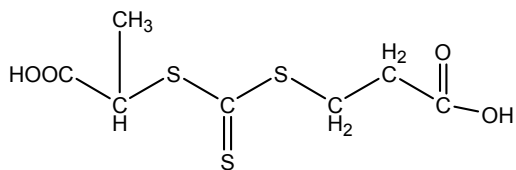
$M_n \times 10^3$	PDI
9.0	1.06

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.

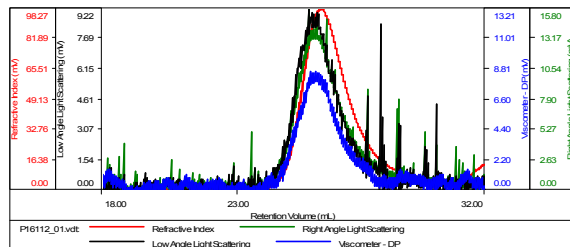
Solubility:

Poly (4-Boc-styrene) is soluble in DMF, THF, toluene and CHCl_3 . It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer:

Sample ID: P16112-4BocS

Concentration (mg/mL)	2.2396
Sample chVol (mL/g)	0.1850
Method File	PS80K-Oct2016-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh (Da)	Mw (Da)	Mw/Mh	IV (dL/g)	Mp (Da)
P16112_01.vdt	8,981	9,524	1.060	0.2288	9,269