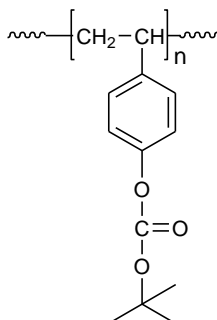


Sample Name:  
**Poly (4-((tert-butoxycarbonyl)oxy)styrene)**

Sample #: **P16271-4BOCS**

**Structure:**

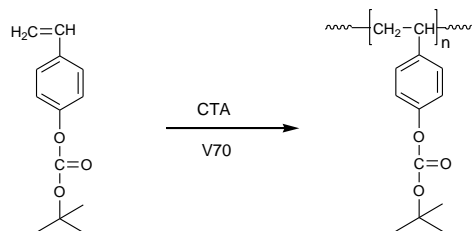


**Composition:**

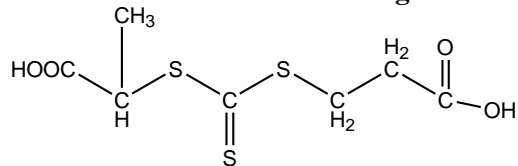
Mn x 10 <sup>3</sup>	PDI
10.0	1.29

**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 as below.



**Structure of chain transfer reagent:**



**Characterization:**

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

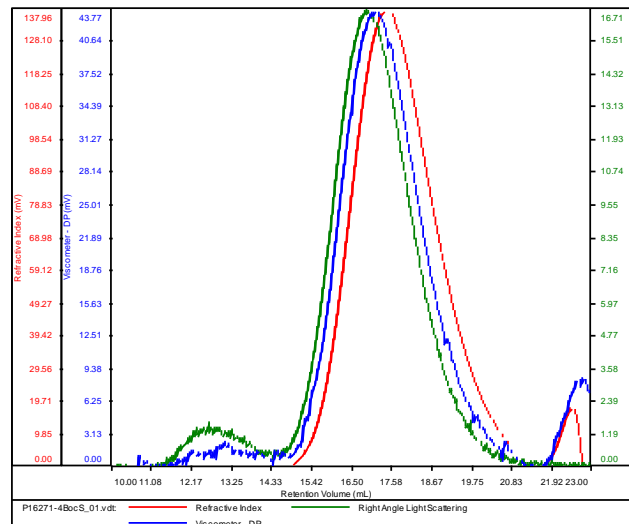
**Solubility:**

Poly (4-Boc-styrene) is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC elugram of Homopolymer**

**P16271-4BocS**

Conc	16.8066
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80k_2017-September22-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16271-4BocS_01.vdt	10,175	13,124	12,468	1.290	0.0774