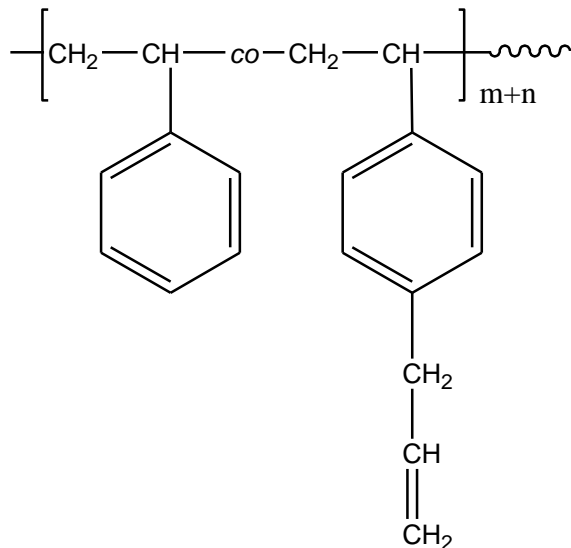


Sample Name: **Random copolymer of styrene with 4 allylstyrene**

Sample #: **P14665-SSallyl-ran**

Structure:



Composition:

Mn x 10 ³	Double Bond mol%	Mw/Mn (Total)
10.0	5.0%	1.5

Synthesis Procedure:

Polystyrene-g-4-allylstyrene is synthesized by copolymerization of styrene and 4- allyl styrene.

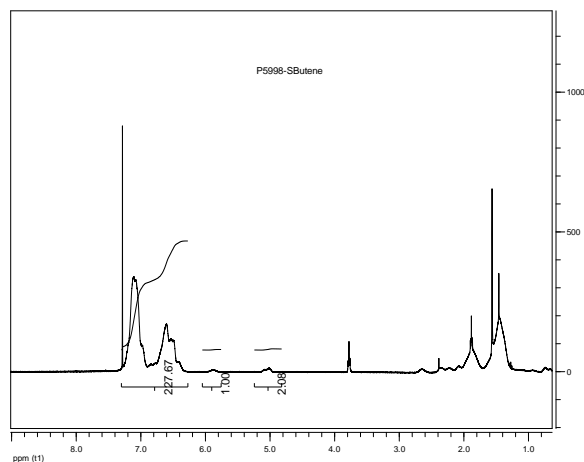
Characterization:

The molecular weight and polydispersity index (PDI) of polymers are obtained by size exclusion chromatography. The composition of grafting polymer is determined by NMR.

Solubility:

Polystyrene-g-butene is soluble in THF, DMF, chloroform, and Toluene. It precipitates from hexanes or methanol.

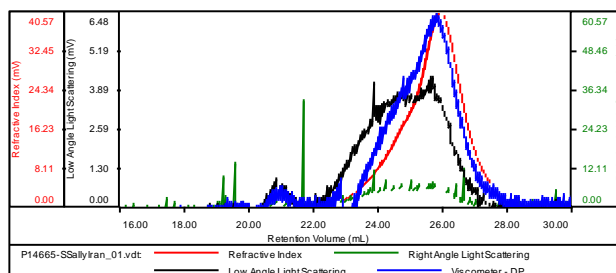
NMR of Polymer:



SEC of Polymer:

Sample ID: Pq4665-SSallyl

Concentration (mg/mL)	2.0625
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-NOV25-2013-0002.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14665-SSallylran_01.vdt	10,058	15,346	9,589	1.526	0.1194

