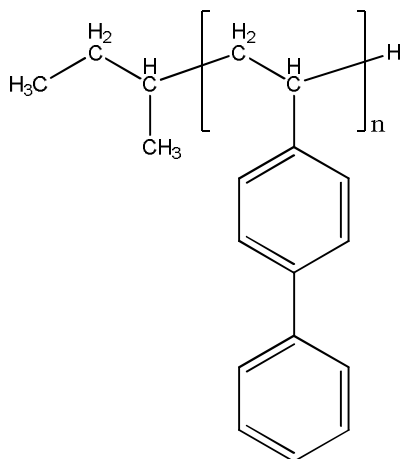


Sample Name: Poly(4-vinyl biphenyl)

Sample #: P19859-4VBP

CAS# 25232-08-0

Structure:



Composition:

Mn x 10 <sup>3</sup>	PDI
139.0	1.14

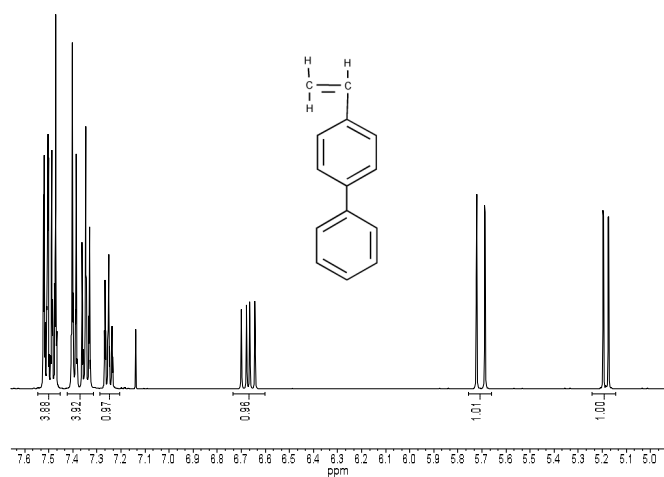
Synthesis procedure:

The polymer was synthesized by anionic process.

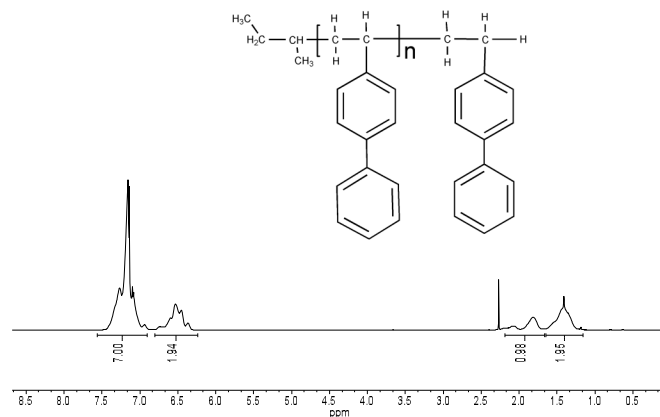
Solubility:

The polymer is soluble in THF, CHCl<sub>3</sub>, toluene.

<sup>1</sup>H NMR spectrum of the monomer in CDCl<sub>3</sub>:



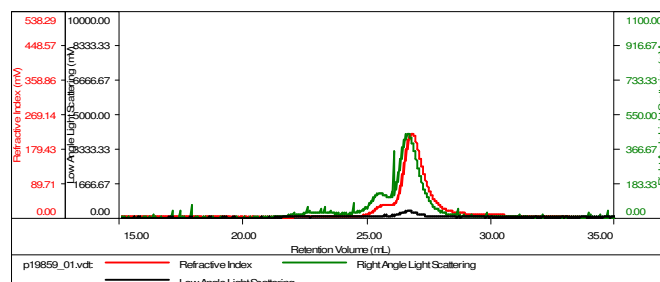
<sup>1</sup>H NMR spectrum of the polymer in CDCl<sub>3</sub>:



SEC elugram of the polymer:

Sample ID: P19859-4VBP

Concentration (mg/mL)	3.3841
Sample dn/dc (mL/g)	0.1850
Method File	PS80K; April-18-2016-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mv (Da)	Mw/Mn	IV (dL/g)	Rh (nm)	Ret Vol (mL)
p19859_01.vcl	139,158	158,799	1.141	0.3976	10.52	26.767

DSC data for 4VBP polymers:

Molecular weight (Mn)	Glass transition (Tg)
9.5 × 10 <sup>3</sup>	105 °C
30.0 × 10 <sup>3</sup>	135 °C
75.5 × 10 <sup>3</sup>	141 °C
530.0 × 10 <sup>3</sup>	151 °C