

Product Profile

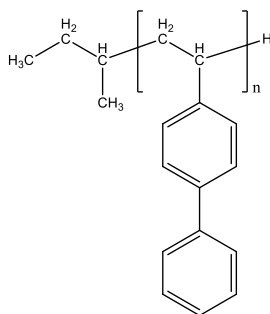
Identification

Product Name: POLY(4-VINYL BIPHENYL)

Product Lot Number: P19913-R-4VBP

CAS: 25232-08-0

Product Chemical Architecture:



Composition:

$\text{Mn} \times 10^3$	Mw/Mn (PDI)	$\text{dn/dc (mg/mL) in THF}$
4493.0	1.11	0.184

Method of Synthesis By anionic process.

Solubility in different solvents

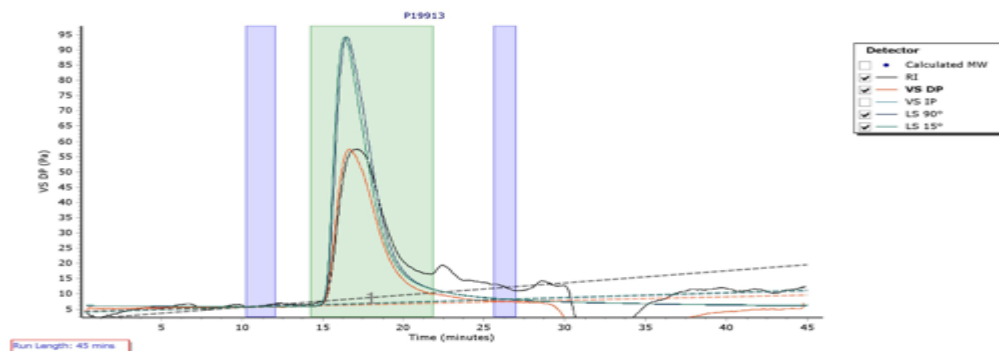
THF	✓		
CHCl_3	✓	CHCl_3	✓
Toluene	✓		

Validation of Architecture:

A. Gel Permeation Chromatography (GPC), SEC- Profile

P19913

Chromatogram Plot

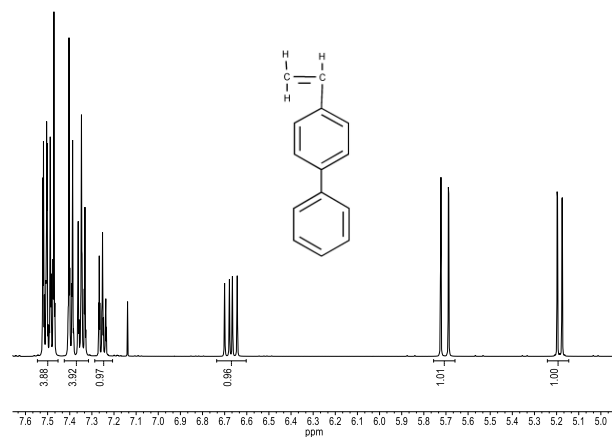


Molecular Weight Averages

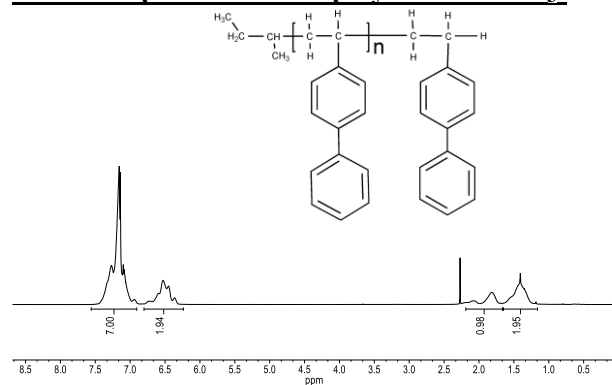
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	5571713	4492818	4984471	5402491	5746982	5319376	1.109

B. ¹H NMR spectrum of the monomer in CDCl₃:

¹H NMR spectrum of the monomer in CDCl₃:



¹H NMR spectrum of the polymer in CDCl₃:



C. Thermal analysis profile of polymers

DSC data for poly 4VBP polymers of different molecular weights

Molecular weight (Mn)	Glass transition (T _g)
9.5×10^3	105 °C
30.0×10^3	135 °C
75.5×10^3	141 °C
530.0×10^3	151 °C