

Product Profile

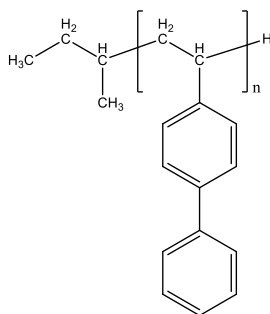
Identification

Product Name: POLY(4-VINYL BIPHENYL)

Product Lot Number: P19859-R-4VBP

CAS: 25232-08-0

Product Chemical Architecture:



Composition:

$\text{Mn} \times 10^3$	Mw/Mn (PDI)	$\text{dn/dc (mg/mL) in THF}$
162.0	1.18	0.184

Method of Synthesis By anionic process.

Solubility in different solvents

THF	✓		
CHCl_3	✓	CHCl_3	✓
Toluene	✓		

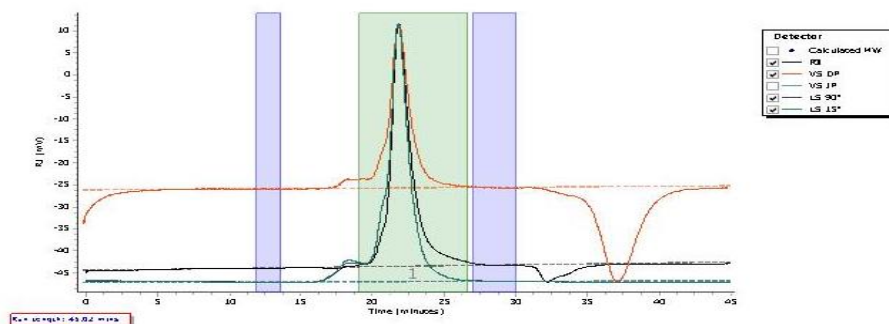
Validation of Architecture:

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

B.

Chromatogram Plot

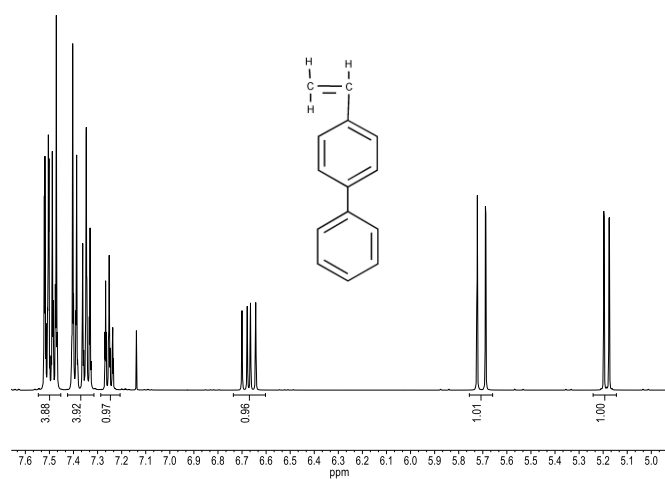
P19859R-4VBP



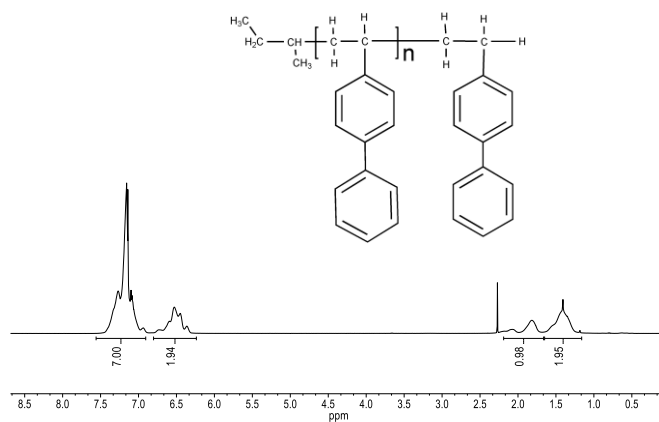
Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	206421	181887	191475	215472	239423	212584	1.184

¹H NMR spectrum of the monomer in CDCl₃:



C. INMR (HNMR) of polymer:



D. 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