

Product Profile

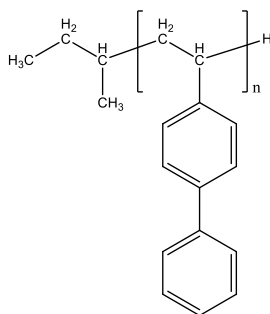
Identification

Product Name: POLY(4-VINYL BIPHENYL)

Product Lot Number: P16047-R-4VBP

CAS: 25232-08-0

Product Chemical Architecture:



Composition:

$\text{Mn} \times 10^3$	Mw/Mn (PDI)	$\text{dn/dc (mg/mL) in THF}$
40.0	2.73	0.184

Method of Synthesis

By anionic process.

Solubility in different solvents

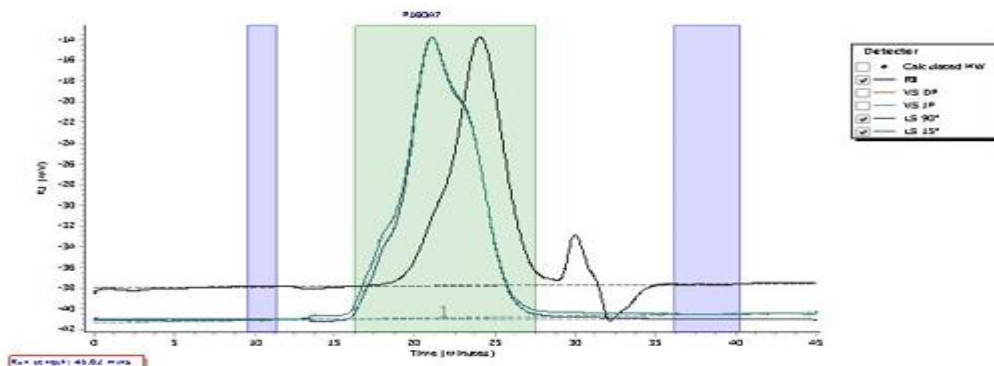
THF	✓		
CHCl_3	✓	CHCl_3	✓
Toluene	✓		

Validation of Architecture:

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

P16047

Chromatogram Plot

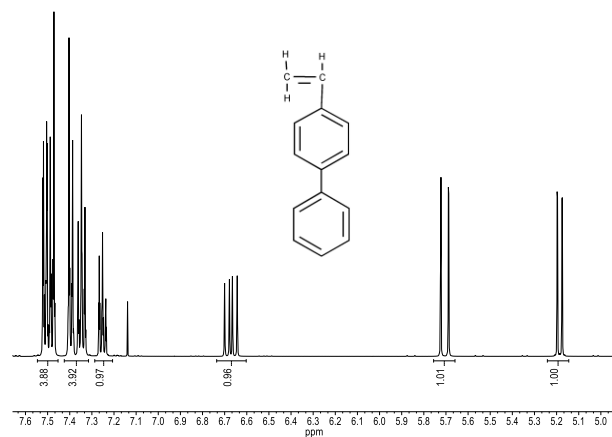


Molecular Weight Averages

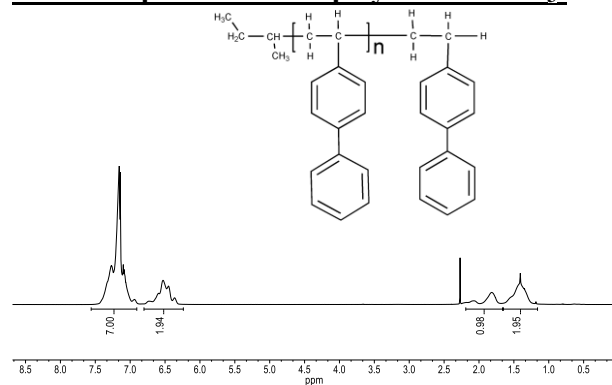
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PDI
Peak 1	51080	40446	110483	385226	1057201	311584	2.732

B. ¹H NMR spectrum 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