

Product Profile

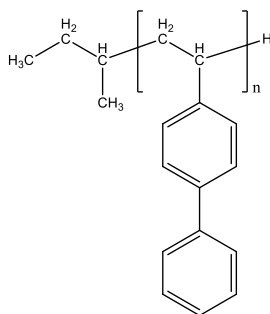
Identification

Product Name: POLY(4-VINYL BIPHENYL)

Product Lot Number: P19851-R-4VBP

CAS: 25232-08-0

Product Chemical Architecture:



Composition:

Mn x 10 ³	Mw/Mn (PDI)	dn/dc (mg/mL) in THF
620.0	1.54	0.184

Method of Synthesis By anionic process.

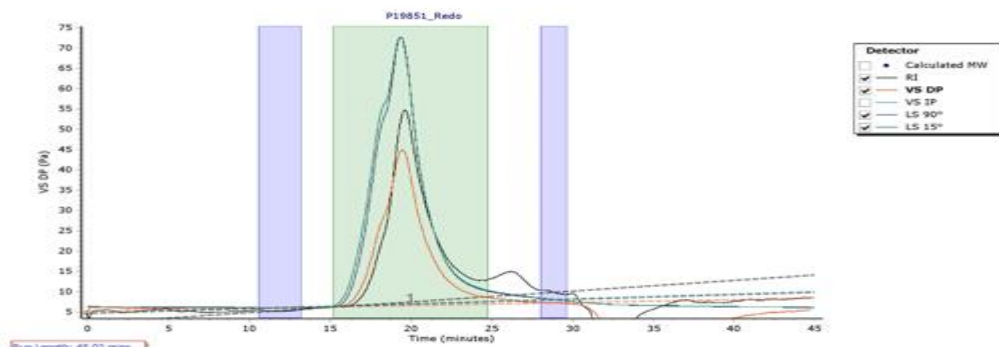
Solubility in different solvents

THF	✓		
CHCl ₃	✓	CHCl ₃	✓
Toluene	✓		

Validation of Architecture:

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

Chromatogram Plot

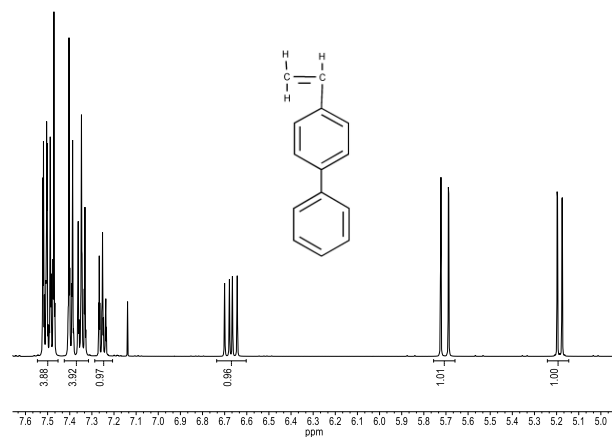


Molecular Weight Averages

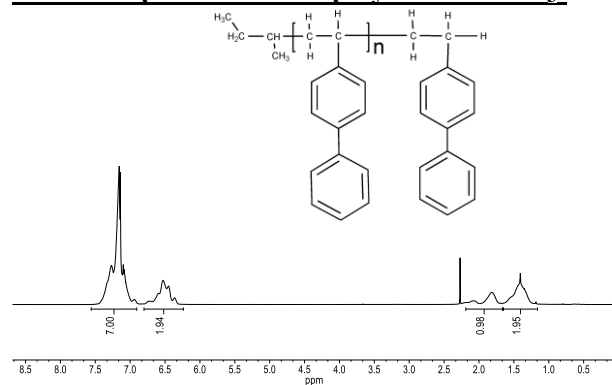
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	1000994	619714	954866	1281882	1614775	1219033	1.541

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