

Product Profile

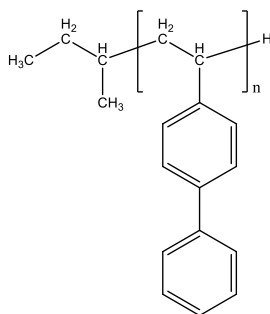
Identification

Product Name: POLY(4-VINYL BIPHENYL)

Product Lot Number: P19854-R-4VBP

CAS: 25232-08-0

Product Chemical Architecture:



Composition:

Mn x 10 ³	Mw/Mn (PDI)	dn/dc (mg/mL) in THF
11.0	1.16	0.184

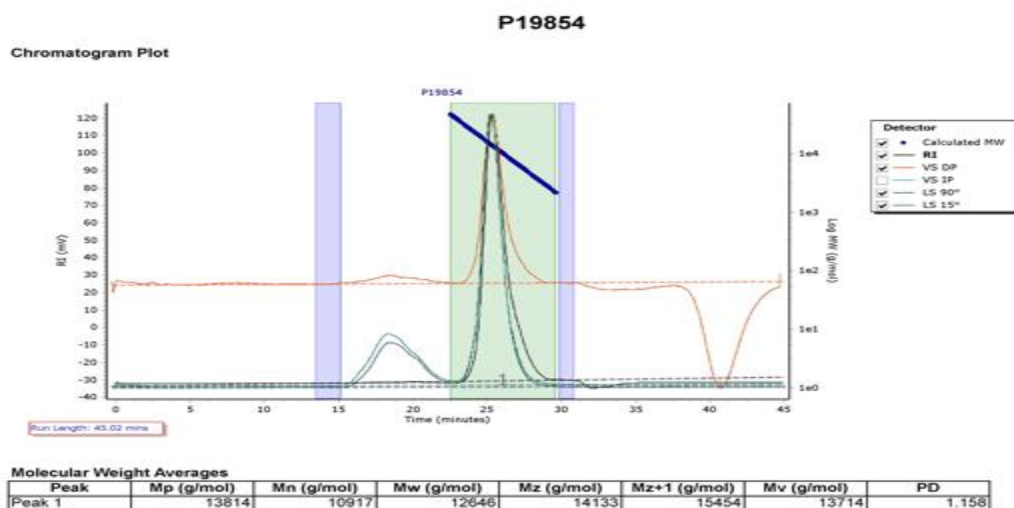
Method of Synthesis By anionic process.

Solubility in different solvents

THF	√		
CHCl ₃	√	CHCl ₃	√
Toluene	√		

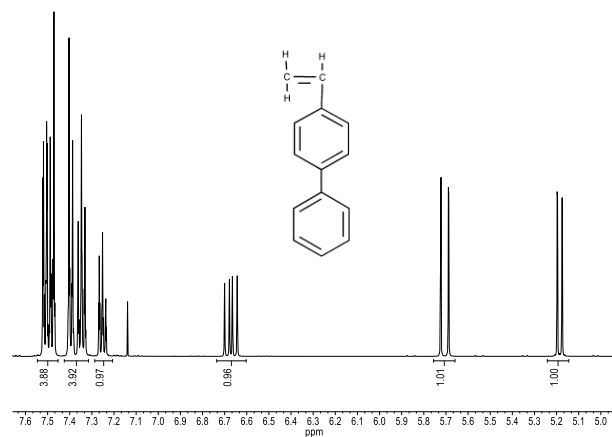
Validation of Architecture:

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

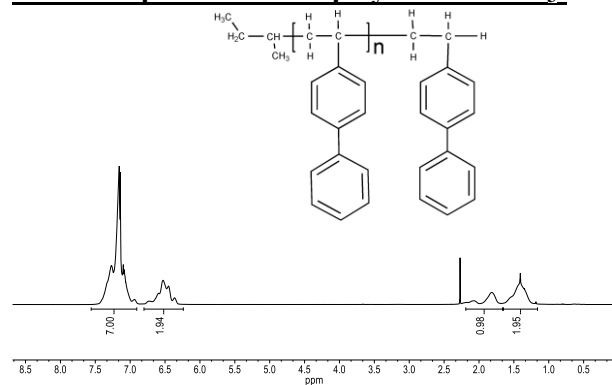


B. ^1H NMR spectrum of the monomer in CDCl_3 :

^1H NMR spectrum of the monomer in CDCl_3 :



^1H NMR spectrum of the polymer in CDCl_3 :



C. Thermal analysis profile of polymers

DSC data for poly 4VBP polymers of different molecular weights

Molecular weight (M_n)	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