

## Product Profile

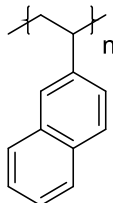
### Identification

**Product Name:** Poly(2-vinylnaphthalene)

**Product Lot Number:** P44194-2VN

**CAS #:** 28406-56-6

**Product Chemical Architecture:**



### Composition:

<b>Mn (g/mole)</b>	44,000
<b>Mw (g/mole)</b>	54,000
<b>Mw/Mn</b>	1.21
<b>dn/dc (mL/g) in THF at 30 °C</b>	0.230

### Method of Synthesis

The polymer is synthesized by anionic polymerization process.

### Solubility in different solvents:

<b>THF</b>	√	<b>DMF</b>	X
<b>Alcohol</b>	X	<b>CHCl<sub>3</sub></b>	√
<b>Toluene</b>	√	<b>Water</b>	X

### Validation of Architecture

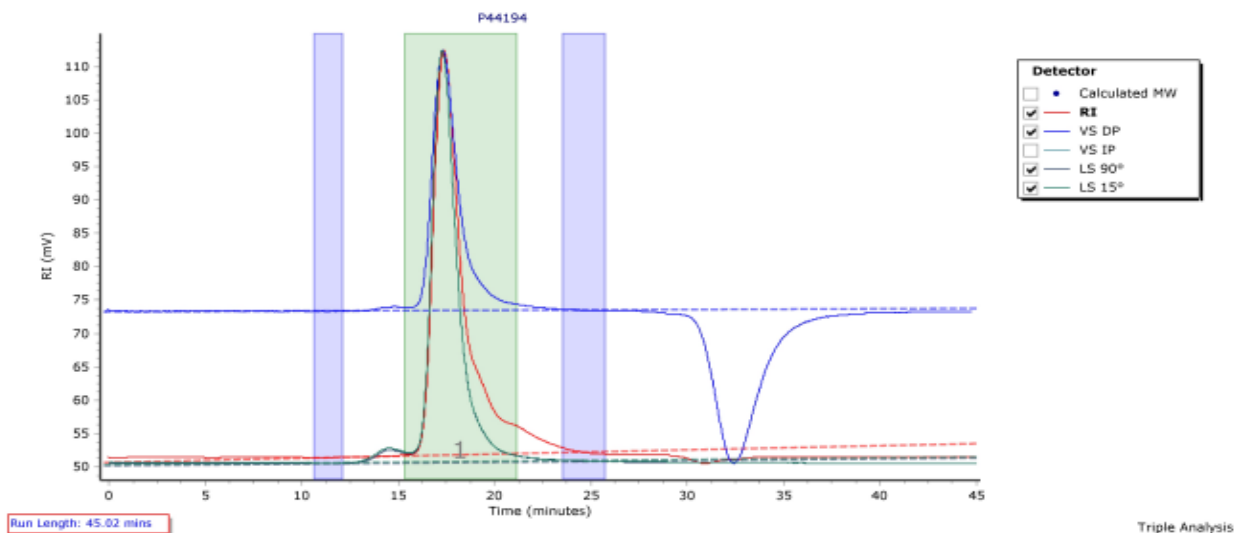
#### A. Gel Permeation Chromatography (GPC), SEC Profile:

Molecular weights were determined by Agilent Technologie 1260 Infinity II GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LS 15°) and three columns (PLgel, 7.5x300 mm, 5µm-10µm, 10<sup>5</sup>-10<sup>6</sup>Å). THF (stabilized BHT) with 1%(v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.



P44194

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	62066	44222	53631	60532	65721	59718	1.213