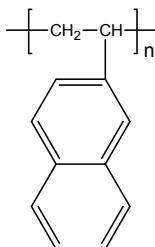


Sample Name: **Poly(2-vinyl naphthalene)**

Sample #: **P11050D-2VN**

**Structure:**

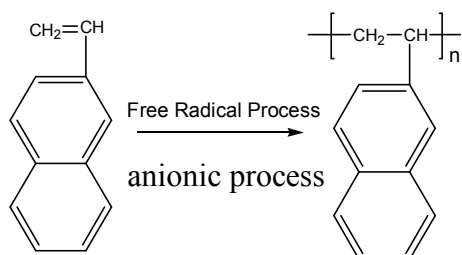


**Composition:**

Mn x 10 <sup>3</sup>	PDI
59.0	1.8
Mn x 10 <sup>3</sup> With respect to Polystyrene 31.0	

**Synthesis Procedure:**

Poly(2-vinyl naphthalene) is synthesized by free radical or anionic living polymerization 2-vinyl naphthalene and the reaction scheme is below.



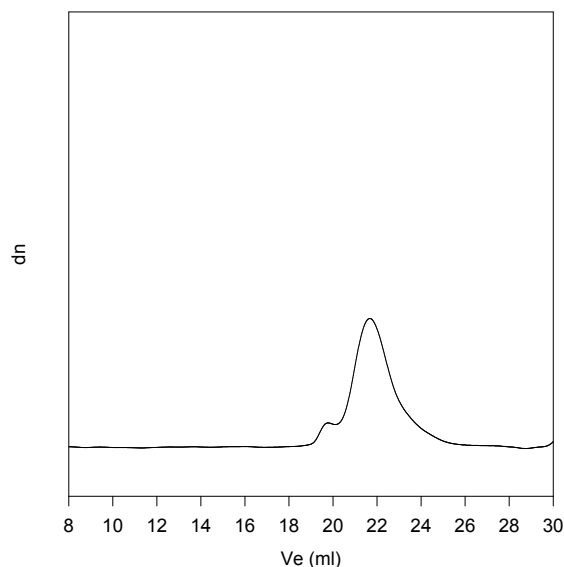
**Characterization:** The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

**For the details of the analysis please read the following our publication:**

Faquan Zeng, Mu Yang, Jianxin Zhang, **Sunil K. Varshney**, "Synthesis and characterization of block copolymers from 2-vinylnaphthalene by anionic polymerization" J. of Polymer Science, Journal of Polymer Science Part A: Polymer Chemistry, 40, 24, 4387-4397 2002.

**SEC of Homopolymer:**

**P11050D-2VN**



Size Exclusion Chromatography of Poly(2-Vinylnaphthalene)  
 $M_n=59,000$ ,  $M_w=106,000$ ,  $PI=1.8$