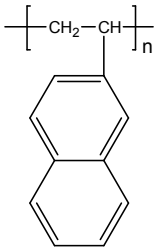
Sample Name: **Poly(2-vinyl naphthalene)**

Sample #: **P10158B-2VN**

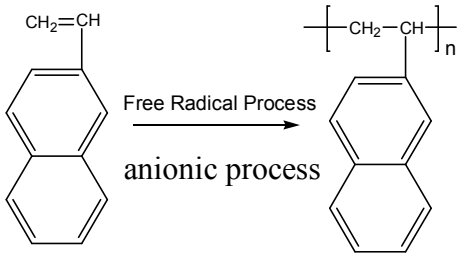
**Structure:**



**Composition:**

| Mn x $10^3$ | PDI |
|---|---|
| 154.0 | 1.24 |

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



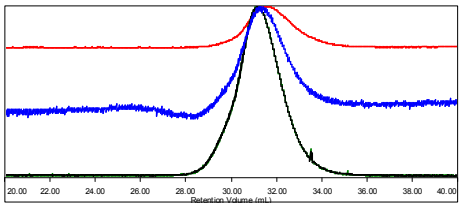

**Characterization:**
The molecular weight and polydispersity index (PDI) of Poly(2-vinyl naphthalene) are obtained by size exclusion chromatography.

**Solubility:**
Poly(2-vinyl naphthalene) is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

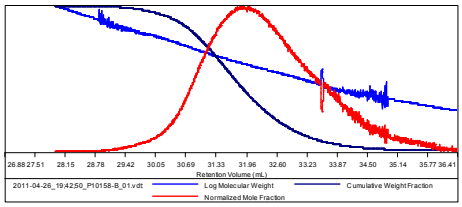
**SEC of Homopolymer:**

**Sample ID: P10158-B**

| | |
|---|---|
| **Concentration (mg/ml)** | 0.9749 |
| **Sample dn/dc (dl/g)** | 0.2300 |
| **Method File** | PS80-Jan192011-0000.vcm |
| **Column Set** | 3x PL 1113-6300 |
| **System** | System 1 |




| Sample | Mn (Daltons) | Mw (Daltons) | Mp (Daltons) | Mw/Mn | IV (dl/g) |
|---|---|---|---|---|---|
| 2011-04-26_19;42;50_P10158-B_01.vdl | 154,041 | 192,176 | 187,670 | 1.248 | 0.6287 |




For further Information, please see the following our paper:

1. 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.