

# Product Profile

## Identification

**Product Name:** Poly(styrene-b-2-vinyl-pyridine)

**Product Lot Number:** P10087-R-S2VP

**CAS #:** 24980-54-9

**Product Chemical Architecture:**



**Composition:**

Composition (S-b-2VP)	34,000-b-7,000
2VP mole %	16.8
Mn (g/mole)	41,000
Mw (g/mole)	42,000
Mw/Mn	1.04
dn/dc (mL/g) in DMF at 35 °C	0.16

## Method of Synthesis

The polymer is synthesized by anionic polymerization process.

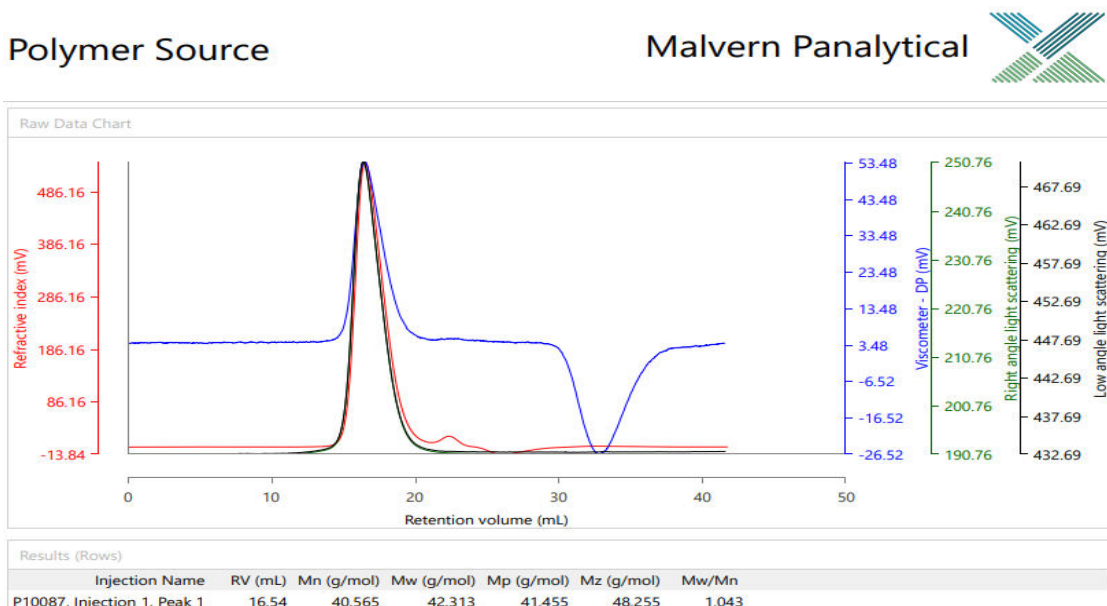
**Solubility in different solvents:**

THF	√	DMF	√
Alcohol	Depends on composition	CHCl <sub>3</sub>	√
Toluene <sub>(hot)</sub>	√	Water	X

## Validation of Architecture

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

Molecular weights were determined by Malvern OmniSec Reveal & Resolve GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LALS 7°) and two columns (PSS, SDV, 8x300 mm). DMF with 0.023M LiBr was the eluent. The flow rate was 0.7 ml/min.



B. NMR ( $^1\text{H}$ NMR) of S2VP in  $\text{CHCl}_3$

