

Product Profile

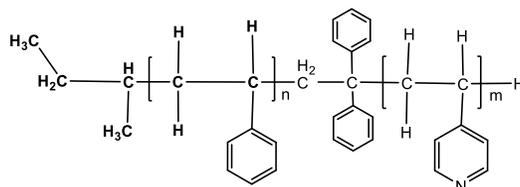
Identification

Product Name: Poly(styrene-b-4-vinyl-pyridine)

Product Lot Number: P8373-R-S4VP

CAS #: 26222-40-2

Product Chemical Architecture:



Composition:

Composition (S-b-4VP)	25,000-b-32,000
4VP mole %	56.1
Mn (g/mole)	57,000
Mw (g/mole)	59,000
Mw/Mn	1.04
dn/dc (mL/g) in DMF at 35 °C	0.158

Method of Synthesis

The polymer is synthesized by anionic polymerization process.

Solubility in different solvents:

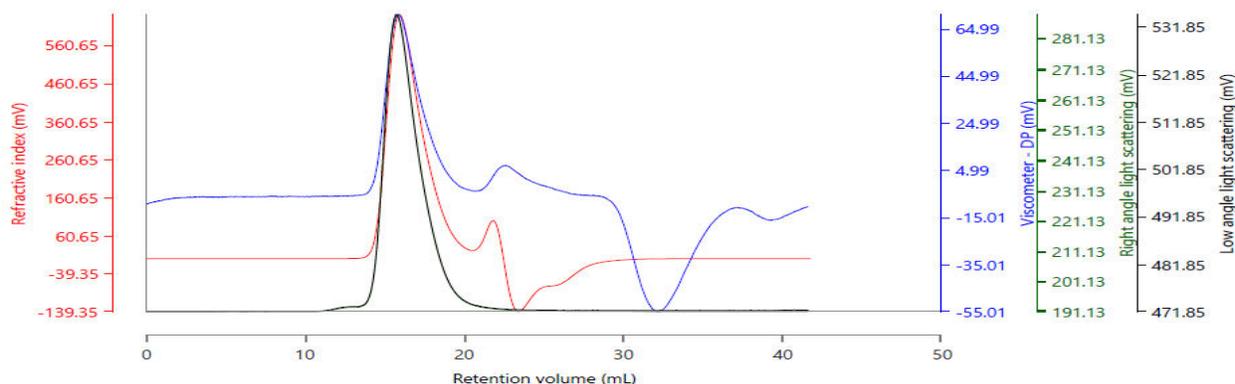
THF	Depends on composition	DMF	√
Alcohol	Depends on composition	CHCl ₃	√
Toluene _(hot)	X	Water	X

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.

Raw Data Chart



Results (Rows)

Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mz (g/mol)	Mw/Mn
P8373, Injection 1, Peak 1	15.93	57,071	59,306	58,518	70,916	1.039

B. NMR (^1H NMR) of S4VP in CDCl_3 , 500 MHz

