

Product Profile

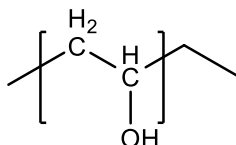
Identification

Product Name: Poly (Vinyl alcohol)

Product Lot Number: P44586B-VA

CAS# 9002-89-5

Product Chemical Architecture:



Composition:

| Mn x 10 ³ | Mw/Mn (PDI) | dn/dc in Water |
|-------------------------------------------------|-------------|----------------|
| 23.5 | 1.3 | 0.15ml/g |
| Microstructure of Polymer by ¹ H NMR | | |

Method of Synthesis.

Poly vinyl alcohol is obtained from the hydrolysis of poly vinyl acetate under alkaline conditions. Poly vinyl acetate is obtained by free radical polymerization. Polymerization was carried out in bulk.

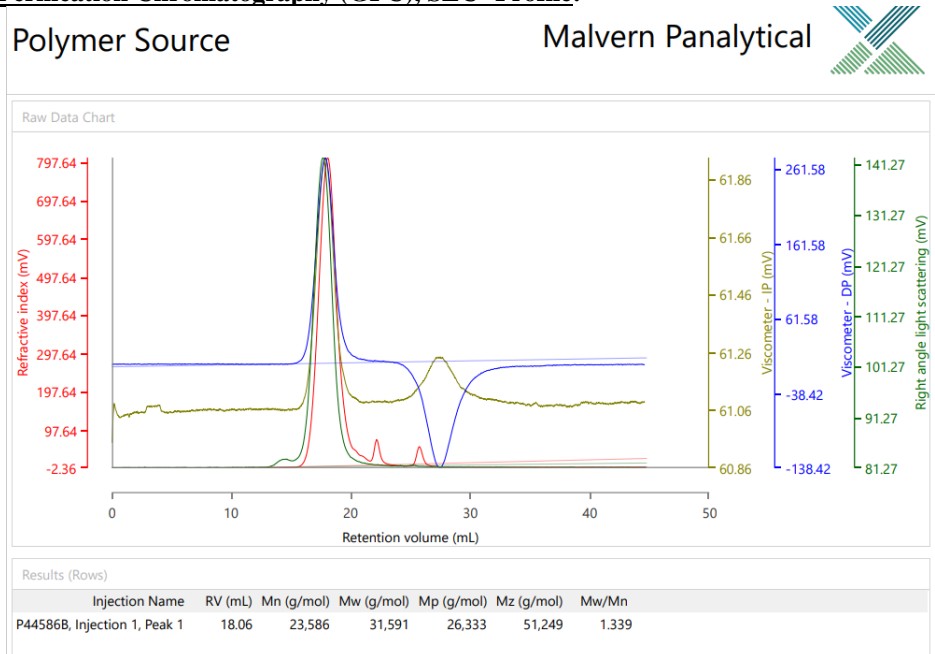
Solubility in different solvents

| | | | |
|-------------------|----------|-------|---|
| THF | X | Water | ✓ |
| CHCl ₃ | X | | |
| Toluene | X | | |

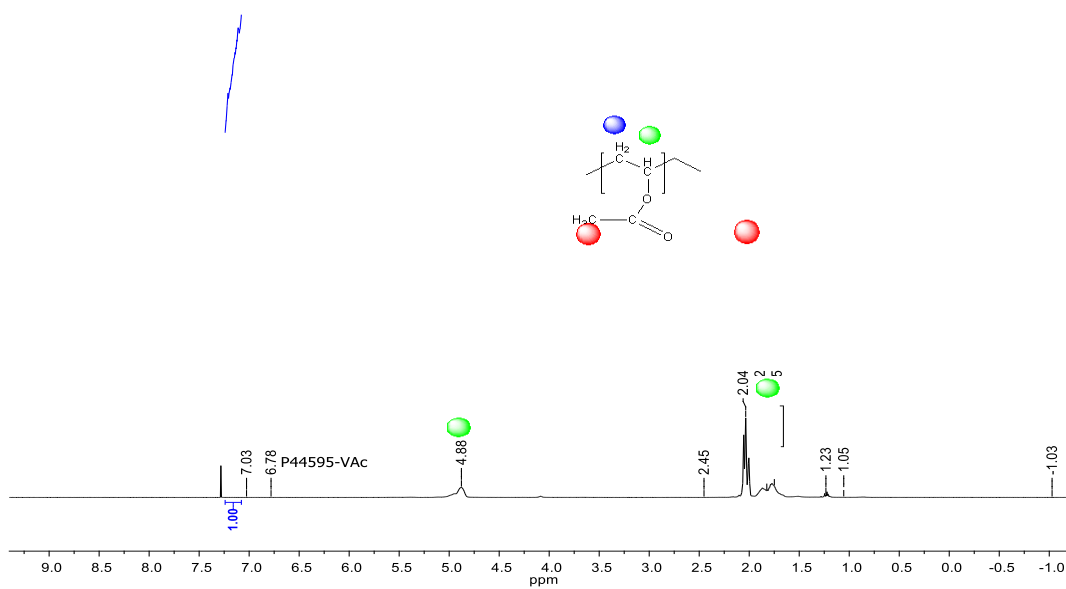
Purification of Polymer: By column chromatography

Validation of Architecture:

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



B. NMR (HNMR) of polymer:
Poly Vinyl acetate in CdCl3



Poly Vinyl alcohol in D2O

