

# Product Profile

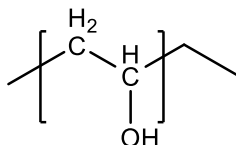
## Identification

**Product Name:** Poly (Vinyl alcohol)

**Product Lot Number:** P44595-VA

**CAS#** 9002-89-5

**Product Chemical Architecture:**



## Composition:

Mn x 10 <sup>3</sup>	Mw/Mn (PDI)	dn/dc in Water
21.0	1.4	0.15ml/g
Microstructure of Polymer by <sup>1</sup> 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.

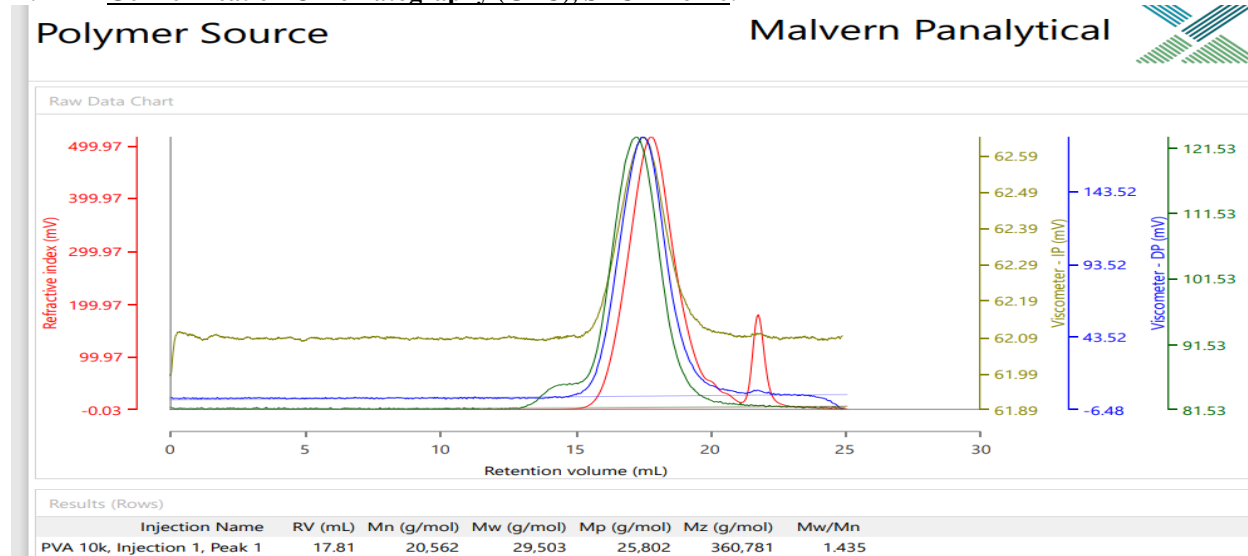
## Solubility in different solvents

THF	<b>X</b>	Water	✓
CHCl <sub>3</sub>	<b>X</b>		
Toluene	<b>X</b>		

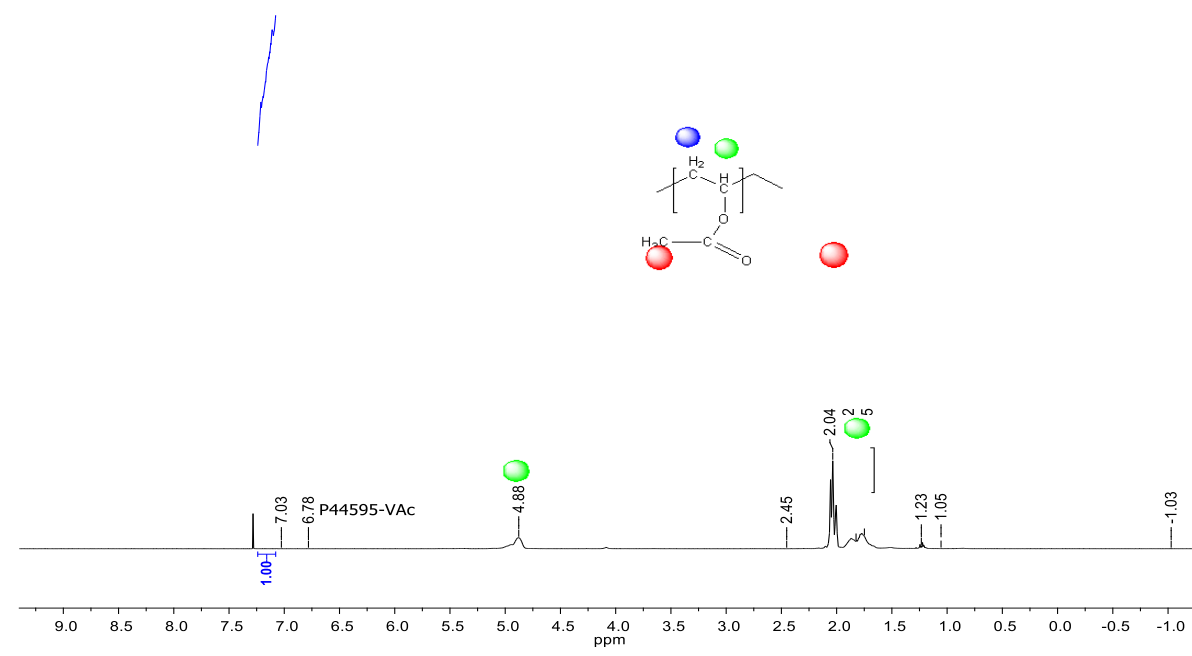
**Purification of Polymer:** By column chromatography

## 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**

