

Product Profile

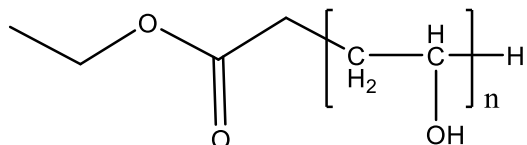
Identification

Product Name: Poly (Vinyl alcohol)

Product Lot Number: P45262-VA

CAS# 9002-89-5

Product Chemical Architecture:

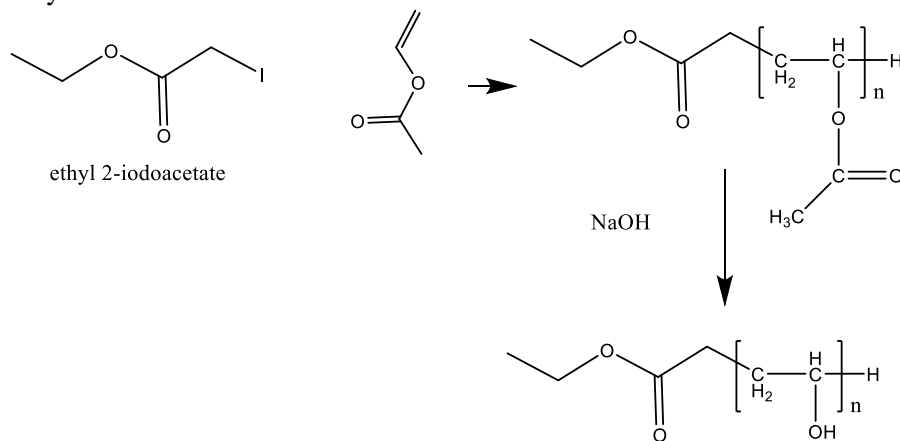


Composition:

Mn x 10 ³	Mw x 10 ³	Mw/Mn (PDI)
20.0	29.0	1.4
Hydrtol;ysis of acetate to alcohol >99%		

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 using ethyl-2-iodoacetate as chain transfer reagent. Polymerization was carried out in bulk.

Polymerization Scheme



Solubility in different solvents

THF	X	Water	√
CHCl ₃	X		
Toluene	X		

Purification of Polymer: By column chromatography

Validation of Architecture: GPC carried out in aqueous conditions with H₂O containing 0.25M NaNO₃ and 0.01M NaH₂PO₄ buffer pH 7 at room temperature using 2 columns and flow rate 1.0ml/min.

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

