

# POLYVINYL ALCOHOL



CAS Number: 9002-89-5

Other Names: Ethenol; Vinyl alcohol; Hydroxyethene; Gohsenol;  
Polyviol; Elvanol

Formula: C<sub>2</sub>H<sub>4</sub>O

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## PRODUCT INTRODUCTION

Polyvinyl alcohol (PVOH, PVA, or PVAL) is a synthetic polymer that is soluble in water. It is effective in film forming, emulsifying, and has an adhesive quality. It has no odor and is not toxic, and is resistant to grease, oils, and solvents. It is ductile but strong, flexible, and functions as a high oxygen and aroma barrier.

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## PHYSICAL AND CHEMICAL PROPERTIES

|            |                 |
|------------|-----------------|
| Purity     | 94.0% min       |
| Hydrolysis | 87 – 89 % (MOL) |
| Viscosity  | 21 - 26 (CPS)   |
| Volatile   | 5% max          |
| PH         | 5 -7            |
| Ash        | 0.5% max        |

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## APPLICATION

- Polyvinyl alcohol is used in food industries as a binding and coating agent.
- Its viscosity favors the application as coating agent to tablets and capsules.
- Polyvinyl alcohol is used as a suspension polymerization aid, as protective colloid, to make polyvinyl acetate dispersions.
- Polyvinyl alcohol /gelatin based biocompatible polymeric scaffolds have been developed for 3D cancer models.

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## PACKAGING OPTIONS

Drums

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