

## TC-PVP K90

### INCI NAME

Polyvinylpyrrolidone

### Description

TC-PVP K90 is a hygroscopic, amorphous polymer supplied as a white or off-white powder. It can be plasticized with water and most common organic plasticizers. It is considered to be physiologically inert. Acts as a film former, fixative, emulsion stabilizer, dispersant and foam stabilizer, provides hard, glossy, transparent and breathable film. TC-PVP K90 is widely used in hair styling products, creams and lotions, hair colorants and toothpastes.

### Specification

Parameter	Value
Appearance	White or off-white powder
K-Value (Viscosity of 1% solids w/v aq. Soln)	80~100
Moisture (%)	5.0max.
Residue on ignition (%)	0.1max
Residual Vinyl Pyrrolidone (%)	0.1max.
pH (5% aq.soln)	3.0-7.0
Active Content (%)	95min.
Nitrogen (%)	11.5-12.8

These values indicate typical specifications, they are not intended to be used as product specifications.

### Properties

Polymers are non-ionic, neutralization not required; Capable of stabilizing suspensions, emulsions and dispersions; High compatibility with inorganic salts, many resins

and other cosmetic raw ingredients;

Forming high capacity for water absorption film;

Easy to dissolve in water and a variety of organic solvent;

Good hygroscopicity and adhesion.

### Applications

Film former and thickener for Hair styling products

---hair gel, mousses, pump sprays

Emulsion stabilizer in creams and lotions

Dispersant for hair colorants

Foam stabilizer

Destainer and gelling agent in toothpastes

Thickening agent for oral and optical preparations.

### Formula Guidelines

To be determined by specific formula

### Storage & Handling

**Standard Packing:** 25kg/drum

**Storage:** Stored in dry place at room temperature

**Shelf life:** 24 months

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Version: A/0

Last update: 2016-04-10