



ZetPDO-PK (Propanediol)

ZetPDO-PK is a multifunctional ingredient derived from corn, that can increase the overall performance to improve not only its aesthetic appeal but also its effectiveness. It offers moisturizing properties that can result in a smooth, dewy finish as the formula sets. It also acts as solubilizer for actives improving their penetration in the skin. It provides preservative boosting effect in formulation.

ZetPDO-PK is considered a safe, well-tolerated ingredient, not likely to cause sensitivity. It is an alternative to synthetic glycols.

INCI Name: Propanediol

Chemical Name: Propane-1,3-diol

Function: Humectant, Moisturizer, Carrier, Preservative Booster, Solvent

CAS Number: 504-63-2

Grade: Pharma Grade

Ingredient Origin: Natural Origin

Synonyms: 1,3-Dihydroxypropane, 1,3-Propanediol, 2-Deoxyglycerol, beta-Propylene glycol, 1,3-Propylenediol, 2-(Hydroxymethyl) ethanol, omega-Propanediol, 1,3-Propylene glycol, Trimethylene Glycol

Properties: One of the most powerful humectants, provides smoothness & softening to the skin. With its skin-friendly performance, including no irritation, enhanced moisturization and excellent aesthetics, **ZetPDO-PK** is ideal for skin care, hair care, deodorants, fragrances, and other cosmetic and personal care products.

Uses:

- Humectant
- Moisturizer
- Preservative Booster
- Solvent
- Active Carrier
- Reduces Bitterness in Oral care, Pharma and Food applications
- Alternative to petroleum derived glycols
- Improves Sensorial profile of finished formulations

Raw Material Source: Corn- Made from fermentation of glucose and contains no added preservatives, petroleum-based ingredients, or animal by-products.

Applications: Hydrating, Moisturizing Creams & Lotions, Anti-aging & Anti-wrinkle Products, Pre/After Sun Lotions, Protecting / Nourishing Skin Care Products, Products for Sensitive or Dry Skin, Hair Care Products

Typical Properties

Appearance	Clear
Odor	Sweet, Low
Solubility in water	Freely Soluble
Viscosity (20°C)	52 cPS
Density (20°C)	1.049-1.055 g/ml
pH	7.0
Purity	> 99.8%