

# The truth about Propylene Glycol

**Dive into what the ingredient is, how it works, and its myths we've busted.**

*Section: Ingredient stories*

What is Propylene Glycol?

Let's get geeky. Propylene Glycol (PG) is a small organic molecule with the chemical formula  $C_3H_8O_2$ , which is synthetically produced to bring some serious benefits to your skin. Not only is it a potent humectant, drawing in moisture to keep your skin hydrated, but it also acts like a backstage pass, enhancing the absorption of other ingredients.

How does Propylene Glycol work?

Ultimate multitasker

PG is a moisture magnet, pulling hydration from the air to keep your skin well-moisturised, soft and supple. And, by being an "absorption-enhancer," it's a great wingman for other ingredients in your products, helping them work their magic.

"Propylene glycol is the same as ethylene glycol"

Far from it

With such similar names, it's easy to see why there is confusion. However, they are two completely different compounds with distinct chemical structures. Ethylene glycol is the toxic one, often used in antifreeze, while propylene glycol is safe and beneficial, commonly used in skincare and even food products.

"Propylene glycol is not vegan"

Yip it is

Completely synthetic, propylene glycol is produced in a lab and doesn't involve the use of any animal products or by-products in its making. It's cruelty-free beauty in a test tube.

"Propylene glycol causes cancer"

It's safe to use

Propylene glycol has an undeserved bad reputation. Extensive and thorough studies have been conducted, and there is absolutely no evidence linking propylene glycol to cancer.

How to integrate Propylene glycol into your routine

The first layer

Propylene glycol is gentle enough to use both morning and evening. Its absorption-enhancing

properties make it the perfect ingredient for layering. Use the product containing propylene glycol first, and let it open the door for other ingredients to do their thing.