

TECHNICAL DATA SHEET

Product name: Glycerin 99,5%

INCI name: Glycerin

CAS: 56-81-5

Synonyms: propane-1,2,3-triol, glycerol, glycyol alcohol, trihydroxypropane

Chemical classification: Polyol

Functional category: Skin conditioning agent ~ Humectant, Hair conditioning agent, Protective agent, Solvent, Viscosity modifier

Description: Glycerin (glycerol) is a simple chemical compound consisting of three carbon atoms, eight hydrogen atoms, and three hydroxyl (-OH) groups. Each carbon in the chain is linked to a hydroxyl group (-OH). The presence of these groups makes glycerin an alcohol, more specifically, a triol because it contains three hydroxyl groups. The hydroxyl groups make glycerin highly polar. These groups can form hydrogen bonds with water and other polar molecules, explaining its good solubility in water. It is insoluble in oils and many hydrophobic solvents. Glycerin is a clear, colorless, odorless viscous liquid. It has a sweet taste. The boiling point is around 290°C. Density is approximately 1.26 g/mL at 25°C. Glycerin is hygroscopic (absorbs water from the air); Generally stable, but can react with strong oxidizing agents. 99.5% glycerin indicates high purity, and as such, it is often used in pharmaceutical formulations, cosmetics as a humectant, and in the food industry.

Usage in cosmetic products: Used as a humectant and solvent at a concentration of 3-5%. It is part of the water phase of multiphase systems. It moisturizes the skin and has a protective effect; reduces irritation and itching. Recommended for the care of sensitive, cracked, and hardened parts of the skin (elbows, heels) as well as for hair care. Hair becomes soft and hydrated if a few drops of glycerin are added to shampoo before washing. Used in numerous face products such as soaps, body lotions, products to increase skin hydration, scrubs, face masks, as well as shampoos and hair conditioners. For external use only.

Source raw materials: Glycerin of plant origin is produced from natural sources,

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vegetable oils of soy, canola, and sunflower. 100% free from palm oil derivatives

Production method: Glycerin is produced by traditional methods: hydrolysis of fats and fermentation of sugars (saponification of neutral oils) using alkaline carbonates.

Animal testing: The substance has not been tested on animals

GMO: Not GMO

Vegan: Does not contain animal components

