PRAKASH
Chemicals Agencies

INFINIUM

Your global partner for Food & Pharma Ingredients

Product Specification Sheet

Product Name: Propylene Glycol - USP

Country of Origin: Imported

Product Specification:

Sr No.	Parameters	Specification
1	Identification	Complies the test
2	MPG Assay, wt %	Min 99.8
3	Sp. Gr(25/25oC)	1.035-1.037
4	Color, APHA	Max 10
5	Water, ppm	Max 700
6	Acidity,ml	Max 0.05
7	Iron, ppm	Max 0.1
8	Chloride , wt.ppm	Max 1
9	Sulphate, wt.ppm	Max 10
10	Heavy metals,ppm	Max 1
11	Arsenic, wt.ppm	Max 1
12	Residue,ppm	Max 1
13	Residual solvent	Pass
14	EG, wt.ppm	Max 50
15	DEG ,wt.ppm	Max 50
16	Distillation Range (1 atm) oC	186-189

Packing: 215 kg drums

Applications of Propylene Glycol - USP

In food and beverage, feed, cosmetics and pharmaceutical applications, propylene glycol USP Grade is used, for example, to dissolve flavouring in drinks, to keep animal feed moist, to homogeneously emulsify oily and watery elements in creams, sprays and liquids, or as solvent (excipient) for the active ingredients in medicines.

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TÜV SÜD ISO 9001

Applications of Propylene Glycol - USP

In industrial applications propylene glycol is used to make other materials, such as the unsaturated polyester resins which are used for example in automotive, bathtubs, kitchenware, pipes, wind turbine blades and marine applications. It is also used to manufacture polyurethane foams, paints and coatings, and plays an important role as an ingredient of formulations for heat transfer fluids, liquid detergents and aircraft de-icing.

- **Pharmaceutical**

The main function of propylene glycol USP in pharmaceuticals is to dissolve the active medicines and provide equal distribution of the medicine ingredient in the formulation, so that each pill, liquid dose or cream-based application always contains the exactly prescribed amount of curing agent.

Propylene Glycol pharmaceutical applications include:

- ✓ **Therapeutic drugs and medicines, such as vaccines or cough syrup**
- ✓ **Local anaesthetics**
- ✓ **Antiseptics**
- ✓ **Vitamins and hormones.**

- **Food**

Propylene glycol USP Grade is the only grade appropriate for application in food due to its handling practices.

Propylene glycol USP Grade is the ideal carrier of a large variety of flavours that give most of today's food and beverage their distinctive taste. The substance itself is colour-, taste- and odourless, and it does not react on its own, which means that it can perform its function without impacting on other product attributes.

This product has been confirmed safe, and provides unique inherent properties with regard to holding/attracting both water- and oil-based substances. In food, it is used to retain food colour pigments and provide for homogeneous distribution within the mixture.

Direct food contact uses include:

- ✓ **Solvent and carrier for flavour and colour in food and beverage manufacturing processes, for drinks, biscuits, cakes, sweets**
- ✓ **Thickener**
- ✓ **Clarifier and**
- ✓ **stabilizer in food and beverage such as beer, salad dressings or baking mixture**

Indirect food contact uses include:

- ✓ **Industrial food processing**
- ✓ **Food packaging**
- ✓ **Heat transfer fluid in chilling and freezing applications**
- ✓ **Solvent for the food packaging print**

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Applications of Propylene Glycol - USP

- **Animal Feed:**

Propylene glycol USP Grade, with its inherent property of attracting water, helps keep animal feed moist, fresh and chewy - and thus easier for dogs and livestock to digest. This is of particular economic significance within the livestock industry.

Applications of propylene glycol USP Grade as feed additive

- ✓ **Humectants to provide moisture and taste: " A humectants is a substance with the ability to attract and hold water in a formulation "**
- ✓ **Solvent, stabiliser and preservative to keep the feed suitable for longer use**
- ✓ **Additive for increased energy provision**

- **Cosmetics & Toiletries: Attractive, Efficient and Safe Products**

Applications of propylene glycol USP/EP (pharmaceutical grade) in cosmetics and toiletries include products in:

- ✓ **Personal care: Bath and shower soaps, gels, face cleansers, shaving foams, after shave, antiperspirant deodorants, roll-ons, sticks, lipsticks, fragrances, perfumes**
- ✓ **Skin care: hand, body and facial moisturizers, sunscreen products**
- ✓ **Hair care: shampoos, conditioners, styling gels**
- ✓ **Oral care: mouthwashes, toothpaste**
- ✓ **Baby care: wipes, antiseptics**

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