Food Grade Glycerin

Chemical Details	Value (in %)	Method
Appearance	Clear and transparent	Usp39
Purity%	99.5	Usp39
Identification A by IR	pass	Usp39
Identification C by GC	pass	Usp39
Specific Gravity	1.2614	Usp39
Colour (APHA)	colorless	Usp39
Chlorides, ppm	8.32	Usp39
Sulfate, ppm	10.5	Usp39
Heavy Metals, ppm	2.5	Usp39
Water%	< 0.5 Max	Usp39
Individual Impurities	pass	Usp39
Total Impurities	pass	Usp39
Arsenic, ppm	0.02	Usp39
Fatty Acids & Ester	pass	Usp39
Ash, ppm	0.002	Usp39
Ammonia	pass	Usp39

Food Grade Glycerin

Food Grade Glycerin, often referred to as food-grade glycerol, is an organic compound typically extracted from plant or animal oils. Chemically, it is a trihydric alcohol (glycerol), appearing as a clear, colorless, and odorless liquid.

PRODUCT FEATURE

1. Eco-Friendly Sourcing

• Description: Derived from 100% sustainably sourced plant oils, ensuring minimal environmental impact.

• Benefit: Supports green initiatives and reduces carbon footprint in production.

2. Global Certifications

• Certifications: Complies with HALAL, KOSHER, and ISO 9001 standards.

• Benefit: Guarantees suitability for diverse religious and international markets.

Food Grade Glycerin

Applications of Food Grade Glycerin

Food & Beverage Industry:
- Humectant: Prevents drying in baked goods and canned foods.
- Natural Sweetener: Sugar substitute in low-calorie products.
- Filler: Enhances texture in low-fat biscuits and snacks.
- Thickening Agent: Adds viscosity to beverages and sauces.
- Solvent: Dissolves flavorings and food colorings.
- Plant Preservation: Mixed with water to preserve plant leaves.

Cosmetics & Personal Care:
- Emulsifier: Stabilizes mixtures in lotions and creams.
- Moisturizer: Key ingredient in natural soaps and skincare products.

Pharmaceuticals:
- Suppositories & Ointments: Enhances drug absorption and texture.
- Cough Syrups: Acts as a solvent and soothing agent.

Chemical Industry:
- Additive: Used in producing propylene glycol and polyurethane foams.
- Paints & Resins: Improves flexibility and durability.

Tobacco Industry:
- Moisture Retention: Prevents tobacco leaves from drying.

Animal Feed:
- Feed Quality Enhancement: Boosts nutritional value and digestibility.

Production Methods for Food Grade Glycerin:

1. Plant-Based Glycerin:

. Derived from plant oils such as coconut oil, soybean oil, or palm oil.

. Suitable for vegetarians and vegans.

2. Animal-Based Glycerin:

. Produced from animal fats.

.Primarily used in non-food products like soaps and creams, not for edible purposes.

3. Laboratory-Synthesized Glycerin:

. Manufactured through chemical processes followed by purification.

.Suitable for food, pharmaceutical, and industrial applications.

Packaging

- Drums: Supplied in 180 kg steel or plastic drums.
- IBC Tanks: Available in 1000-liter Intermediate Bulk Containers (IBCs)