

GLYCERINE



CAS Number: 56-81-5

Other Names: Glycerol; 1,2,3-Propanetriol; Glycyl alcohol;
Trihydroxypropane; Glyceritol

Formula: $C_3H_8O_3$

PRODUCT INTRODUCTION

Glycerol is a triol with a structure of propane substituted at positions 1, 2 and 3 by hydroxy groups. It is a colorless, odorless, viscous liquid that is sweet-tasting and non-toxic. It is non-volatile and intensely hygroscopic. Glycerin is used as a solvent, humectant and vehicle in various pharmaceutical preparations.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Transparent
Glycerol Content (%wt)	99.73
Color (Hazen)	5
Specific Gravity (25 °C)	1.2610
Fatty Acid & Esters (ml, 0.5N n=NaOH)	0.56
Water Content (%wt)	0.12
Chloride (ppm)	Pass
Sulphate (ppm)	Pass
Residue on Ignition (%wt)	< 0.01
Heavy Metal (as Pb) (ppm)	< 5
Limit of Chlorinated Compounds (mg/kg)	< 30
Individual Impurity (%)	-
Diethylene Glycol	< 0.1
Ethylene Glycol	< 0.1
Total Impurity (%)	< 1

APPLICATIONS

- Pure glycerine, or glycerol, has a wide range of applications in the food, pharmaceutical, medical and personal care industries, as well as a variety of industrial and scientific uses.
- In foods and beverages, glycerol serves as a humectant, solvent, and artificial sweetener. It is also used as filler in commercially prepared low-fat foods, and as a thickening agent in liqueurs.
- Glycerol is used in medical, pharmaceutical and personal care preparations mainly as a means of improving smoothness, providing lubrication, and as a humectant. It is found in allergen immunotherapies, cough syrups, elixirs and expectorants, toothpaste, mouthwashes, skin care products, shaving cream, hair care products, glycerin soaps and water-based personal lubricants. Nitroglycerin is the most commonplace treatment for chronic angina, the chest pain of heart disease.
- Topical pure or nearly pure glycerol is an effective treatment for psoriasis, burns, bites, cuts, rashes, bedsores, and calluses. It can be used orally to eliminate halitosis, as it is a contact bacterial desiccant. The same property makes it very helpful with periodontal disease; it penetrates biofilm quickly and eliminates bacterial colonies.

PACKAGING OPTIONS

Drums

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