POLYETHYLENE GLYCOL

CAS Number: 25322-68-3

Other Names: Poly(oxyethylene), Poly(ethylene oxide); Carbowax; GoLYTELY; GlycoLax; Fortrans; TriLyte; Colyte; Halflytely; Macrogol

Formula: $C_{69}H_{140}O_{35}$

PRODUCT INTRODUCTION

Polyethylene glycol (PEG) refers to a chemical compound composed of repeating ethylene glycol units. PEG is an O-CH2-CH2 polymer, which is water-soluble, non-toxic, non-antigenic, and biocompatible. It is miscible with water, acetone, alcohols, benzene, glycerin, glycols and aromatic hydrocarbons.

PHYSICAL AND CHEMICAL PROPERTIES

Hydroxyl Number as mgKOH/g	294.50
pH (5% Aq. Solution) at 25°C	5.90
Average MW	380.90
Color at 25°C	5.00 Pt-Co
Residual EO	0.20 Wt. ppm
1,4-Dioxane	0.10 Wt. ppm
Water	0.03 Wt. %
Acidity as mgKOH/g	0.05
Total Glycols	0.02 Wt. %

APPLICATION

- Polyethylene glycol is used in a variety of pharmaceutical formulations.
- It finds application in Hewlett-Packard design jet printers as an ink solvent and a lubricant for the print heads.
- It is an important raw material for the manufacture of polyuretnae, PEG salts of lauric, oleic and stearic acids and latex.

PACKAGING OPTIONS

Drums

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