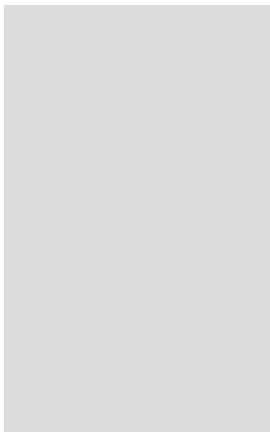
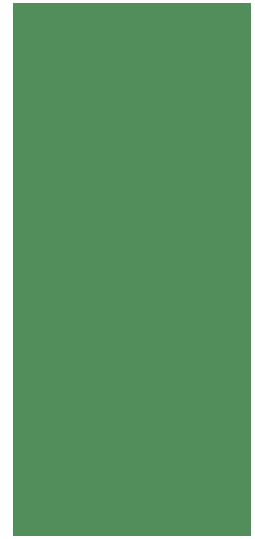


# PHARCOGOL<sup>®</sup>

Polyethylene Glycol



**POLYETHYLENE GLYCOL**



## **POLYETHYLENE GLYCOLS**

### **A Leading Choice for Pharmaceuticals**

Polyethylene Glycols (PEGs) are highly versatile excipients and Active Pharmaceutical Ingredients (API) produced to meet the exacting requirements of the Pharmaceutical Industry but PEGs do more than just meet requirements as they establish industry standards for innovation, versatility, consistency and compliance.

## Innovation

We have been developing innovative solutions for several decades and our innovation is evidenced in our quest for increased processing efficiency in-depth support for quality requirements, and tailored supply chain solutions. You can depend on us for the science, technology and know how that you need to support your own ability to innovate.

## Versatility

The versatility of PEGs has been proven over decades of use in pharmaceuticals. As Active laxative and colonic lavage formulations. They are used widely as excipients in solid oral dosage forms, ointments and creams, capsules and liquid medications, and suppositories. Versatility is further enhanced by multiple product forms including liquid, powder, granular and flake materials.

## Consistency

With PEGs, we can help you find the ideal product for your application. PEGs are available in a wide range of viscosities and melting points for formulating flexibility. By choosing a suitable product grade, or blending products, you can achieve the desired balance of water solubility, hygroscopicity, vapour pressure, melting or freezing range, and viscosity on a regular basis.

## Compliance

PEGs comply with the stringent regulatory requirements for pharmaceutical applications. They conform to the US Pharmacopeia / National Formulary (USP/NF) monographs for polyethylene glycols. Selected liquid and solid PEGs are compliant with the European Pharmacopoeia (Ph. Eur.) requirements for Macrogols. Product Quality is in line with GMP on a World-Scale Production Platform. The manufacturing, handling and storage of all PEGs are conducted with all appropriate Good Manufacturing Practice (GMP) in our world-scale production facilities Our ability to supply PEGs meeting appropriate global regulatory requirements globally is supported by our inventory management solutions and a network of strategically located terminal facilities.



## Chemistry and Product Line

PEGs are water soluble linear polymers formed by the addition reaction of ethylene oxide to an ethylene glycol equivalent. The general formula for polyethylene glycol is:  $H-(OCH_2CH_2)_n-OH$  where "n" is the average number of repeating oxyethylene groups.

PEGs are available in a wide range of molecular weights to offer flexibility to help optimize formulations. Depending on molecular weight, products are available in liquid, solid, granular, powder, and flake forms.

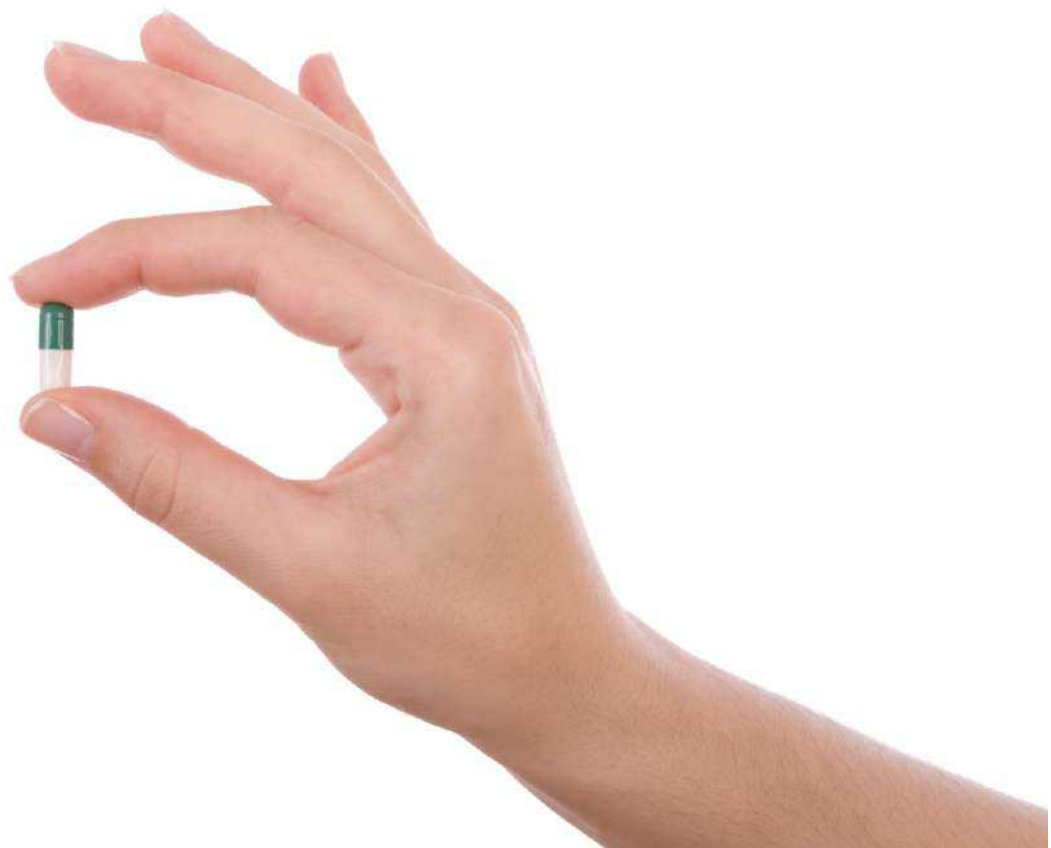
PEGs are available in average molecular weights ranging from 300 to 8000. Low aldehyde grades of PEG 300, 400, and 600 are available.



# Pharcogol (Polyethylene Glycol) Grades

Product	Trade Name	Compliance	Compliance	Form
Polyethylene Glycol 200	Pharcogol 200	BP/ Ph.Eur	USP NF	Liquid
Polyethylene Glycol 300	Pharcogol 300	BP/ Ph.Eur	USP NF	Liquid
Polyethylene Glycol 400	Pharcogol 400	BP/ Ph.Eur	USP NF	Liquid
Polyethylene Glycol 600	Pharcogol 600	BP/ Ph.Eur	USP NF	Liquid
Polyethylene Glycol 800	Pharcogol 800	BP/ Ph.Eur	USP NF	Liquid
Polyethylene Glycol 1500	Pharcogol 1500	BP/ Ph.Eur/IP	USP NF	Solid, Flakes
Polyethylene Glycol 3350	Pharcogol 3350	BP/ Ph.Eur	USP	Powder, Flakes
Polyethylene Glycol 4000	Pharcogol 4000	BP/ Ph.Eur/IP	USP NF	Powder, Flakes
Polyethylene Glycol 6000	Pharcogol 6000	BP/ Ph.Eur/IP	USP NF	Powder, Flakes
Polyethylene Glycol 8000	Pharcogol 8000	BP/ Ph.Eur	USP NF	Powder, Flakes

**Note:** Subject to quantity requirement we can produce PEG 10,000, PEG 20,000 & other custom-made grades of PEG.



# Applications

## Pharmaceuticals

	Application	Description	Recommended Products
<b>Actives</b>	Laxatives and Colonic Lavage	PEGs are well-known in the treatment of chronic constipation. Functioning as an osmotic laxative, they can provide a mild and effective treatment without common side effects seen in other laxative types. They are also widely used as colonic lavage to facilitate bowel cleansing prior to medical procedures such as colonoscopies, radiological exams, or gastrointestinal surgery	<b>PEG 3350 &amp; 4000</b>
	Tablet Binding or Coating	PEGs act as binders and fillers offering internal and external lubrication. They are also effective plasticizers in tablet coating formulations, providing good hardness, water solubility and lubricity.	<b>PEG 6000 &amp; 8000</b>
<b>Excipients</b>	Gelatin Capsules	Products are used extensively in soft gelatin capsules. They enhance solubility of the active substance as the primary water-soluble component in the liquid fill. For hard gelatin capsules, products effectively solubilize active ingredients in a melt-fill protocol. A suitable antioxidant additive such as Butylated Hydroxytoluene (BHT) may be beneficial in providing oxidative stability to the active ingredient and to the PEG under filling conditions.	<b>All Grades</b>
	Liquid Medications	PEGs are ingredients in liquid oral-dose medications such as cough medicines and elixirs. where they function as solubilizers and non-alcohol diluents. Other applications include nose and ear drops and spray-on medicines.	<b>LIQUID PEGs</b>
	Suppositories	PEGs serve as a formulation base to dissolve the active substance. They also allow enhanced bioavailability by facilitating effective and complete release of the active substance in the body. High molecular weight PEGs are also used to coat suppositories, providing elasticity and lubricity	<b>PEG 400 &amp; PEG 600</b>



## Chemical Intermediates

### Description

PEGs are used in the synthesis of pharmaceutical actives such as diesters, carbonates, carbamates, and PEG/protein conjugates (PEGylation).

### Recommended Products

**All Grades**

## Chemical Processing Aids

### Description

PEGs have been in pharmaceutical granulation technology for decades. PEGs can offer control to achieve a more uniform particle size distribution, reduce fines concentration, enhance tablet hardness, and add lubricity.

### Recommended Products


**PEG 1500 &  
PEG 8000**







**PHARCOGOL<sup>®</sup>**  
Polyethylene Glycol



## CONTACT US

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