

Global Pharmaceutical Grade Polyethylene Glycol (PEG) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Pharmaceutical Grade Polyethylene Glycol (PEG) market size was valued at US\$ 888 million in 2024 and is forecast to a readjusted size of USD 1235 million by 2031 with a CAGR of 4.9% during review period.

Polyethylene glycol (PEG) is a polyether compound with many applications from industrial manufacturing to medicine. PEG also known as polyethylene oxide (PEO) or polyoxyethylene (POE), depending on its molecular weight. The structure of PEG is commonly expressed as $H-(O-CH_2-CH_2)_n-OH$, n indicating the average number of oxyethylene groups. In this report, we mainly focus on the application of PEG with molecular mass within 10,000 g/mol in the pharmaceutical field.

The global Pharmaceutical Grade Polyethylene Glycol (PEG) market is experiencing steady growth, driven by its widespread application in the pharmaceutical, biotechnology, and personal care industries. PEG is valued for its versatility, biocompatibility, and non-toxicity, making it an essential component in a variety of drug formulations.

1. Growth in the Biopharmaceutical Sector

PEGylation: PEG is widely used in biopharmaceuticals through a process known as PEGylation, where PEG chains are attached to therapeutic molecules like proteins or peptides to enhance their stability, reduce immunogenicity, and extend their half-life. With the increasing development of biologics and biosimilars, the demand for PEG in these applications is rising.

Monoclonal Antibodies and Proteins: The growing use of monoclonal antibodies (mAbs) and therapeutic proteins in treating chronic diseases like cancer, autoimmune disorders, and genetic conditions is driving demand for PEG, which helps improve the pharmacokinetics of these drugs.

2. Increasing Application in Drug Delivery Systems

Oral, Injectable, and Topical Formulations: PEG is commonly used in various drug delivery systems, including oral, injectable, and topical formulations. Its solubility and ability to improve drug bioavailability make it a preferred excipient in many pharmaceutical products. The rising demand for innovative drug delivery systems is boosting the PEG market.

Controlled and Sustained Release Formulations: PEG is also used in controlled-release formulations to enhance drug stability and modulate the release of active ingredients. As the pharmaceutical industry focuses on developing long-acting formulations, the role of PEG in these systems is expanding.

4. Expansion in the Pharmaceutical Industry

Pharmaceutical Excipients: PEG serves as an important excipient in a wide range of pharmaceutical formulations, including tablets, capsules, and ointments. Its role in improving drug solubility and absorption is critical, particularly for poorly soluble drugs. The continued growth of the pharmaceutical industry, driven by an aging population and the rise in chronic diseases, is contributing to increased demand for pharmaceutical-grade PEG.

Over-the-Counter (OTC) Medications: PEG is commonly used in laxatives and stool softeners. With the increase in the prevalence of gastrointestinal issues and other digestive disorders, particularly in developed markets, the demand for PEG-based OTC medications is growing.

5. Growing Focus on Sustainable and Bio-Based PEG

Sustainability Initiatives: There is an increasing trend toward using bio-based PEG derived from renewable resources due to growing environmental concerns and regulations. Manufacturers are focusing on developing eco-friendly, sustainable alternatives to traditional petrochemical-based PEG, which is expected to gain traction

in the pharmaceutical and personal care industries.

Regulatory Compliance: With the tightening of environmental and safety regulations in several regions, the focus on green chemistry and sustainable production methods is becoming more important. Companies investing in the production of bio-based or biodegradable PEG will benefit from this shift.

This report is a detailed and comprehensive analysis for global Pharmaceutical Grade Polyethylene Glycol (PEG) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Pharmaceutical Grade Polyethylene Glycol (PEG) market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Pharmaceutical Grade Polyethylene Glycol (PEG) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Pharmaceutical Grade Polyethylene Glycol (PEG) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Pharmaceutical Grade Polyethylene Glycol (PEG) market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Pharmaceutical Grade Polyethylene Glycol (PEG)
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Pharmaceutical Grade Polyethylene Glycol (PEG) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, Dow Chemical, Croda, Clariant, Ineos, India Glycols, Shandong Ruisheng, Jiangxi Yipusheng, Liaoning Huaxing Chemical, Petronas Chemicals, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Pharmaceutical Grade Polyethylene Glycol (PEG) market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Mw (?1000)

Mw (1000-10000)

Market segment by Application

Tablets

Capsules

Liquids

Injectables

Topicals

Others

Major players covered

BASF

Dow Chemical

Croda

Clariant

Ineos

India Glycols

Shandong Ruisheng

Jiangxi Yipusheng

Liaoning Huaxing Chemical

Petronas Chemicals

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Pharmaceutical Grade Polyethylene Glycol (PEG) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pharmaceutical Grade Polyethylene

Glycol (PEG), with price, sales quantity, revenue, and global market share of Pharmaceutical Grade Polyethylene Glycol (PEG) from 2020 to 2025.

Chapter 3, the Pharmaceutical Grade Polyethylene Glycol (PEG) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Pharmaceutical Grade Polyethylene Glycol (PEG) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Pharmaceutical Grade Polyethylene Glycol (PEG) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Pharmaceutical Grade Polyethylene Glycol (PEG).

Chapter 14 and 15, to describe Pharmaceutical Grade Polyethylene Glycol (PEG) sales channel, distributors, customers, research findings and conclusion.

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