

Global Ophthalmic Perfluorocarbon Liquids Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ophthalmic Perfluorocarbon Liquids market size was valued at US\$ 127 million in 2025 and is forecast to a readjusted size of US\$ 189 million by 2032 with a CAGR of 6.0% during review period.

In 2025, global Ophthalmic Perfluorocarbon Liquids production reached approximately 760 k units, with an average global market price of around US\$162 per unit. Ophthalmic perfluorocarbon liquids (PFCLs) are special liquids used in ophthalmic vitreoretinal surgery. The hydrogen atoms on the carbon atoms in the molecules are replaced by fluorine atoms, which has high density and good chemical stability. During surgery, PFCLs can effectively separate the fluid and blood under the retina to help restore the normal position of the retina, especially for treating complex retinal detachment conditions. However, due to its potential intraocular toxicity, it is currently only used as a temporary vitreous filler and must be removed immediately after surgery.

The global demand for ophthalmic perfluorocarbon liquids is anchored in accelerating population aging. According to China's National Bureau of Statistics, the proportion of citizens aged 65 and above continues to rise, driving higher incidence of age-related retinal conditions and corresponding growth in vitrectomy surgical volumes. This demographic trend provides a stable clinical demand base for perfluorocarbon liquids as temporary intraoperative tamponade agents. On the product front, early formulations based on perfluorodecalin have accumulated extensive clinical experience globally, yet concerns over purity and postoperative residue have shifted industry focus toward high-purity perfluorooctane. The U.S. FDA approved purified perfluorooctane in 1996, with multiple subsequent products entering clinical use. From a regulatory standpoint, these

products are classified as Class III high-risk medical devices across major markets, subject to rigorous premarket approval and lifecycle quality management. China's NMPA issued specific registration review guidelines in 2019, while the EU REACH regulation imposes additional compliance obligations on fluorinated chemicals. Within China, provincial-level volume-based procurement initiatives are introducing price linkage mechanisms with explicit price ceilings and requirements that bids not exceed national historical lows. The procurement rules preserve clinical end-user discretion in volume allocation, meaning products lacking clinical endorsement face share erosion even after winning a bid. Upstream fluorocarbon raw material production capacity is also scaling up to strengthen supply chain autonomy. The market will continue to evolve along two principal trajectories ? product-level technological upgrading and regional structural substitution ? with a clear long-term direction and an increasingly defined competitive landscape.

This report is a detailed and comprehensive analysis for global Ophthalmic Perfluorocarbon Liquids 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 Ophthalmic Perfluorocarbon Liquids market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ophthalmic Perfluorocarbon Liquids market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ophthalmic Perfluorocarbon Liquids market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ophthalmic Perfluorocarbon Liquids market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Ophthalmic Perfluorocarbon Liquids

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Ophthalmic Perfluorocarbon Liquids 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 Alcon, Bausch + Lomb, BVI Medical, Geuder AG, DORC (ZEISS), Alchimia srl, Pharmpur, Toomac Ophthalmic, Micromed srl, Biotech Healthcare Group, etc.

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

Market Segmentation

Ophthalmic Perfluorocarbon Liquids market is split by Type and by Application. For the period 2021-2032, 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

Perfluorooctane

Perfluorodecalin

Market segment by Specification

5 ml/unit

7 ml/unit

Market segment by Package

Sterile Vials

Pre-filled Syringes

Market segment by Application

Hospital

Ophthalmology Clinic

Major players covered

Alcon

Bausch + Lomb

BVI Medical

Geuder AG

DORC (ZEISS)

Alchimia srl

Pharmpur

Toomac Ophthalmic

Micromed srl

Biotech Healthcare Group

Shanghai Jieshi Medical Technology

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 Ophthalmic Perfluorocarbon Liquids product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ophthalmic Perfluorocarbon Liquids, with price, sales quantity, revenue, and global market share of Ophthalmic Perfluorocarbon Liquids from 2021 to 2026.

Chapter 3, the Ophthalmic Perfluorocarbon Liquids competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ophthalmic Perfluorocarbon Liquids breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Ophthalmic Perfluorocarbon Liquids market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Ophthalmic Perfluorocarbon Liquids.

Chapter 14 and 15, to describe Ophthalmic Perfluorocarbon Liquids sales channel, distributors, customers, research findings and conclusion.

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