

Global Ophthalmic Perfluorocarbon Liquids Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ophthalmic Perfluorocarbon Liquids market size is expected to reach \$ 189 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

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 studies the global Ophthalmic Perfluorocarbon Liquids production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ophthalmic Perfluorocarbon Liquids and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ophthalmic Perfluorocarbon Liquids that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ophthalmic Perfluorocarbon Liquids total production and demand, 2021-2032, (K Units)

Global Ophthalmic Perfluorocarbon Liquids total production value, 2021-2032, (USD Million)

Global Ophthalmic Perfluorocarbon Liquids production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Ophthalmic Perfluorocarbon Liquids consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Ophthalmic Perfluorocarbon Liquids domestic production, consumption, key domestic manufacturers and share

Global Ophthalmic Perfluorocarbon Liquids production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Ophthalmic Perfluorocarbon Liquids production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Ophthalmic Perfluorocarbon Liquids production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Ophthalmic Perfluorocarbon Liquids market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ophthalmic Perfluorocarbon Liquids market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ophthalmic Perfluorocarbon Liquids Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ophthalmic Perfluorocarbon Liquids Market, Segmentation by Type:

Perfluorooctane

Perfluorodecalin

Global Ophthalmic Perfluorocarbon Liquids Market, Segmentation by Specification:

5 ml/unit

7 ml/unit

Global Ophthalmic Perfluorocarbon Liquids Market, Segmentation by Package:

Sterile Vials

Pre-filled Syringes

Global Ophthalmic Perfluorocarbon Liquids Market, Segmentation by Application:

Hospital

Ophthalmology Clinic

Companies Profiled:

Alcon

Bausch + Lomb

BVI Medical

Geuder AG

DORC (ZEISS)

Alchimia srl

Pharmpur

Toomac Ophthalmic

Micromed srl

Biotech Healthcare Group

Shanghai Jieshi Medical Technology

Key Questions Answered:

1. How big is the global Ophthalmic Perfluorocarbon Liquids market?
2. What is the demand of the global Ophthalmic Perfluorocarbon Liquids market?
3. What is the year over year growth of the global Ophthalmic Perfluorocarbon Liquids market?
4. What is the production and production value of the global Ophthalmic Perfluorocarbon Liquids market?
5. Who are the key producers in the global Ophthalmic Perfluorocarbon Liquids market?
6. What are the growth factors driving the market demand?

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