

Global Perfluorocarbon Liquid for Ophthalmic Surgery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Perfluorocarbon Liquid for Ophthalmic Surgery 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 Perfluorocarbon Liquid for Ophthalmic Surgery production reached approximately 760 k units, with an average global market price of around US\$162 per unit. Perfluorocarbon Liquids (PFCLs) are clear, synthetic, and exceptionally dense liquids used as intraoperative tools in complex vitreoretinal surgeries (such as severe retinal detachments). Because they are heavier than water, surgeons inject them into the eye to mechanically flatten the retina and displace fluid away from retinal tears.

The global market for ophthalmic perfluorocarbon liquids (PFCLs) is anchored in irreversible demographic shifts. The rising incidence of retinal detachment and diabetic retinopathy among aging populations continues to drive vitrectomy surgical volumes, underpinning steady demand for PFCLs as essential intraoperative tamponade agents.

On the product front, first-generation formulations based on perfluorodecalin have accumulated extensive clinical experience globally, yet inherent limitations in purity and concerns over postoperative residual toxicity constrain their utility. Second-generation products featuring high-purity perfluorooctane demonstrate meaningful improvements in safety, lower residue, and reduced viscosity, positioning them as the core direction for clinical upgrade, with regulatory approvals already secured from China's NMPA.

The regulatory landscape is tightening competitive barriers. PFCLs are uniformly classified as Class III high-risk medical devices across major markets, subject to rigorous premarket approval and lifecycle quality management requirements. The EU

REACH regulation imposes additional compliance obligations on fluorinated chemicals. Within China, the expansion of government-led volume-based procurement and policies favoring domestically manufactured products in public procurement create structural openings for local players, while upstream fluorocarbon raw material production capacity is simultaneously 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.

This report studies the global Perfluorocarbon Liquid for Ophthalmic Surgery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Perfluorocarbon Liquid for Ophthalmic Surgery 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 Perfluorocarbon Liquid for Ophthalmic Surgery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Perfluorocarbon Liquid for Ophthalmic Surgery total production and demand, 2021-2032, (K Units)

Global Perfluorocarbon Liquid for Ophthalmic Surgery total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Perfluorocarbon Liquid for Ophthalmic

Surgery 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 Perfluorocarbon Liquid for Ophthalmic Surgery 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 Perfluorocarbon Liquid for Ophthalmic Surgery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Perfluorocarbon Liquid for Ophthalmic Surgery Market, Segmentation by Type:

Perfluorooctane

Perfluorodecalin

Global Perfluorocarbon Liquid for Ophthalmic Surgery Market, Segmentation by Specification:

5 ml/unit

7 ml/unit

Global Perfluorocarbon Liquid for Ophthalmic Surgery Market, Segmentation by Package:

Sterile Vials

Pre-filled Syringes

Global Perfluorocarbon Liquid for Ophthalmic Surgery 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 Perfluorocarbon Liquid for Ophthalmic Surgery market?
2. What is the demand of the global Perfluorocarbon Liquid for Ophthalmic Surgery market?
3. What is the year over year growth of the global Perfluorocarbon Liquid for Ophthalmic Surgery market?
4. What is the production and production value of the global Perfluorocarbon Liquid for Ophthalmic Surgery market?
5. Who are the key producers in the global Perfluorocarbon Liquid for Ophthalmic Surgery market?
6. What are the growth factors driving the market demand?

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