

Global Ophthalmic Perfluorocarbon Liquids Market Growth 2026-2032

<https://marketpublishers.com/r/G59342F06919EN.html>

Date: July 2026

Pages: 117

Price: US\$ 3,660.00 (Single User License)

ID: G59342F06919EN

Abstracts

The global Ophthalmic Perfluorocarbon Liquids market size is predicted to grow from US\$ 120 million in 2025 to US\$ 184 million in 2032; it is expected to grow at a CAGR of 6.3% from 2026 to 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.

LP Information, Inc. (LPI)'s newest research report, the "Ophthalmic Perfluorocarbon Liquids Industry Forecast" looks at past sales and reviews total world Ophthalmic Perfluorocarbon Liquids sales in 2025, providing a comprehensive analysis by region and market sector of projected Ophthalmic Perfluorocarbon Liquids sales for 2026 through 2032. With Ophthalmic Perfluorocarbon Liquids sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Ophthalmic Perfluorocarbon Liquids industry.

This Insight Report provides a comprehensive analysis of the global Ophthalmic Perfluorocarbon Liquids landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Ophthalmic Perfluorocarbon Liquids portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Ophthalmic Perfluorocarbon Liquids market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Ophthalmic Perfluorocarbon Liquids and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Ophthalmic Perfluorocarbon Liquids.

This report presents a comprehensive overview, market shares, and growth opportunities of Ophthalmic Perfluorocarbon Liquids market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

Perfluorooctane

Perfluorodecalin

Segmentation by Specification:

5 ml/unit

7 ml/unit

Segmentation by Package:

Sterile Vials

Pre-filled Syringes

Segmentation by Application:

Hospital

Ophthalmology Clinic

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Ophthalmic Perfluorocarbon Liquids market?

What factors are driving Ophthalmic Perfluorocarbon Liquids market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Ophthalmic Perfluorocarbon Liquids market opportunities vary by end market size?

How does Ophthalmic Perfluorocarbon Liquids break out by Type, by Application?

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