

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

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Abstracts

The global Perfluorodecalin for Ophthalmic Surgery market size is expected to reach \$ 58.25 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

In 2025, global Perfluorodecalin for Ophthalmic Surgery production reached approximately 270 k units, with an average global market price of around US\$144 per unit. Perfluorodecalin for ophthalmic surgery is a perfluorocarbon aromatic organic compound. At room temperature, it is a colorless, odorless, non-toxic liquid with a low boiling point and a high boiling point. It can be used to fix and protect the eyeball during ophthalmic surgery.

According to the 2022 White Paper on Chronic Disease Management of Common Ocular Fundus Diseases in China issued by the National Clinical Research Center for Ocular Diseases, the prevalence of fundus diseases reaches 21.4% among those aged 60 and above and rises to 25.6% among those over 70. The rising caseload of rhegmatogenous retinal detachment requiring vitrectomy sustains stable clinical usage of perfluorodecalin as a temporary intraoperative tamponade agent. Perfluorodecalin represents the longest-established product within the ophthalmic heavy liquid category, with product standards already filed with and approved by the NMPA. However, as a first-generation perfluorocarbon liquid, its clinical limitations center on postoperative residual concerns tied to purity. Comparative studies of different commercial brands have detected significant variability in hydrogenated impurity levels across batches, with 1H-PFO concentrations ranging from below 1 ppm to 376 ppm, directly affecting postoperative inflammatory risk control. Breakthroughs in purification technology are becoming the critical threshold for maintaining competitiveness in the high-end segment. From a regulatory standpoint, perfluorodecalin is classified as a Class III high-

risk medical device across major markets, subject to rigorous premarket approval. China's NMPA mandates purity of no less than 95% as a fundamental registration criterion. The EU REACH restriction proposal on PFAS has placed fluorocarbon compounds including perfluorodecalin under review, progressively raising compliance costs. In China, provincial volume-based procurement initiatives have included ophthalmic heavy liquids within price linkage mechanisms, typically capping bid prices at national historical lows while preserving hospitals' discretionary allocation rights beyond contracted volumes. Upstream fluorocarbon raw material production capacity is being scaled domestically, with local manufacturers having already obtained Class III medical device registration certificates for perfluorodecalin, steadily enhancing supply chain autonomy. The market will continue to evolve along two principal trajectories: purification technology upgrades and regional supply-side structural substitution, with higher clinical purity requirements serving as the decisive variable in product differentiation.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Perfluorodecalin 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 Bausch + Lomb, BVI Medical, Geuder AG, DORC (ZEISS), Alchimia srl, Pharnpur, Toomac Ophthalmic, Micromed srl, 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 Perfluorodecalin 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 Perfluorodecalin for Ophthalmic Surgery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Perfluorodecalin for Ophthalmic Surgery Market, Segmentation by Type:

Purity ? 95%

Purity ? 97%

Global Perfluorodecalin for Ophthalmic Surgery Market, Segmentation by Specification:

5 ml/unit

7 ml/unit

Global Perfluorodecalin for Ophthalmic Surgery Market, Segmentation by Package:

Sterile Vials

Pre-filled Syringes

Global Perfluorodecalin for Ophthalmic Surgery Market, Segmentation by Application:

Hospital

Ophthalmology Clinic

Companies Profiled:

Bausch + Lomb

BVI Medical

Geuder AG

DORC (ZEISS)

Alchimia srl

Pharmpur

Toomac Ophthalmic

Micromed srl

Key Questions Answered:

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

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