

Global Xenon Isotopes 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 Xenon Isotopes market size was valued at US\$ 42.51 million in 2025 and is forecast to a readjusted size of US\$ 99 million by 2032 with a CAGR of 13.0% during review period.

In 2024, global xenon isotope production reached 7,773 liters, with an average selling price of \$4,662.29 per liter. Xenon isotopes refer to different isotopes of the element xenon (Xe). Xenon is a rare gas belonging to the noble gas family. It occurs naturally in multiple isotopes, each containing a different number of neutrons in its nucleus but all with the same number of protons (atomic number 54). This report focuses on xenon-129, xenon-131, and xenon-124.

China, the United States, Russia, Germany, and France are the world's major xenon producers. These countries possess sophisticated extraction and refining technologies for rare gases (such as xenon, krypton, and neon) and hold a key position in the global supply chain. High-purity xenon (?99.999%) is primarily used in the semiconductor, aerospace, medical (such as anesthetics), and scientific research (such as particle detectors). These countries dominate the high-purity xenon market thanks to their large-scale air separation units (ASUs) and rare gas purification technologies. China has experienced rapid development in the rare gas sector in recent years, gradually reducing its reliance on imports and becoming a major supplier.

Xenon-129 can be used for hyperpolarized lung imaging, significantly improving the resolution of lung imaging. Xenon-129 can be used for hyperpolarized lung magnetic resonance imaging. The total market for xenon-129 grew rapidly during the COVID-19 pandemic, but has declined since then. Xenon-131 is a radioactive isotope that undergoes beta decay. It is commonly used in radiotracers, tumor therapy, and the

development of radiopharmaceuticals. Due to its radioactive properties, xenon-131 is also used in medical radiotherapy and related research. Xenon-131 is primarily used in nuclear magnetic gyroscopes. Xenon-124 is a radioactive isotope with a long half-life and is commonly used as a tracer in nuclear physics and astrophysics. Iodine-125 produced from xenon-124 as a precursor can be used in cancer brachytherapy and in vitro radioimmunoassays. Mature products are already available and are commercially available. Iodine-125 is typically produced using xenon-124 (Xe-124) as a target material. Xenon-124 is irradiated with neutrons in a reactor, where it is converted into xenon-125 (Xe-125) through a nuclear reaction. Xenon-125 then decays to form iodine-125 (I-125). During the recycling process, the iodine-125 is captured by an adsorption device and then extracted from the adsorption device through a series of treatments, including elution.

This report is a detailed and comprehensive analysis for global Xenon Isotopes 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 Xenon Isotopes market size and forecasts, in consumption value (\$ Million), sales quantity (L), and average selling prices (US\$/L), 2021-2032

Global Xenon Isotopes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (L), and average selling prices (US\$/L), 2021-2032

Global Xenon Isotopes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (L), and average selling prices (US\$/L), 2021-2032

Global Xenon Isotopes market shares of main players, shipments in revenue (\$ Million), sales quantity (L), and ASP (US\$/L), 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 Xenon Isotopes

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 Xenon Isotopes 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 NII-EFA Rosatom, Orano, Urenco, Isoflex, Cambridge Isotope Laboratories, Nukem Isotopes GmbH, China National Nuclear Corporation, Shangle Gases, etc.

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

Market Segmentation

Xenon Isotopes 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

Xenon 129

Xenon 131

Xenon 124

Market segment by Application

Medical

Research

Others

Major players covered

NIIEFA Rosatom

Orano

Urenco

Isoflex

Cambridge Isotope Laboratories

Nukem Isotopes GmbH

China National Nuclear Corporation

Shanglan Gases

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 Xenon Isotopes product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Xenon Isotopes 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 Xenon Isotopes 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 Xenon Isotopes.

Chapter 14 and 15, to describe Xenon Isotopes sales channel, distributors, customers, research findings and conclusion.

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