

Global Inhaled Nitric Oxide Market Size study, by Application (Neonatal Respiratory Treatment, Chronic Obstructive Pulmonary Disease, Acute Respiratory Distress Syndrome, Others), and Regional Forecasts 2022-2032

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Abstracts

Global Inhaled Nitric Oxide Market is valued approximately at USD 1.12 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.70% over the forecast period 2024-2032. Inhaled nitric oxide (iNO) is a medical gas used as a therapeutic agent to improve oxygenation in individuals facing certain respiratory difficulties. It works by expanding blood vessels in the lungs, promoting better blood flow to areas essential for effective oxygen exchange. Nitric oxide is a naturally produced molecule in the body, playing a role in vasodilation and regulating blood pressure. . iNO targets blood vessels surrounding oxygen-rich areas in the lungs, promoting relaxation and heightened blood flow to facilitate optimal oxygen uptake by red blood cells. This targeted action is essential in treating conditions such as neonatal respiratory treatment, chronic obstructive pulmonary disease, acute respiratory distress syndrome, others. Accordingly, iNO plays a vital role in managing vascular and oxygenation issues, especially in neonatal and critical care scenarios. The robust clinical evidence supporting the efficacy and safety of iNO therapy in adults is a key trend supporting the growth of the Global Inhaled Nitric Oxide Market.

The growth of the inhaled nitric oxide market is anticipated to surge significantly due to increased adoption for managing pulmonary disorders in infants and newborns, coupled with a rise in respiratory disorders prevalence and advancements in healthcare infrastructure. Also, there is growing awareness regarding inhaled nitric oxide's effectiveness in treating various pulmonary conditions, especially in neonates, which is supporting the market expansion during the estimated period of 2024-2032. For

instance, a 2022 article from the National Heart, Lung, and Blood Institute highlights the range of breathing problems affecting newborns, including transient tachypnea, neonatal respiratory distress syndrome (RDS), persistent pulmonary hypertension of the newborn (PPHN), meconium aspiration syndrome, and bronchopulmonary dysplasia (BPD). PPHN is a critical condition marked by heightened pulmonary vascular resistance is a primary indication for inhaled nitric oxide therapy. Its mechanism involves selective dilation of pulmonary blood vessels, enhancing oxygenation, and reducing reliance on invasive ventilation methods. Furthermore, the U.S. Food and Drug Administration's approval for inhaled nitric oxide in treating hypoxic respiratory failure further bolsters its adoption. Consequently, the surge in adoption of inhaled nitric oxide in order to manage respiratory complications in newborns is poised to drive the projected growth of the inhaled nitric oxide market. Furthermore, intensive research and development activities focused on inhaled nitric oxide are anticipated to present substantial growth opportunities within the market for this therapeutic gas. Inhaled nitric oxide has attracted considerable interest due to its promising therapeutic potential across a spectrum of pulmonary and cardiovascular conditions. The ongoing progress in medical science and technology has spurred investigations into innovative applications and formulations of inhaled nitric oxide, prompting heightened investments in research and development by pharmaceutical firms and research establishments. These initiatives aim to refine delivery mechanisms, dosage protocols, and broaden the scope of indications for inhaled nitric oxide therapy. However, stringent application norms across various regions, along with high costs incurred with the procedure is expected to hinder the market growth between 2022 and 2032.

The key regions considered for the global Inhaled Nitric Oxide Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America is a dominating region in the inhaled nitric oxide market and is projected to sustain its leading position with the highest number of market shares throughout the forecast period. Key factors such as presence of advanced healthcare facilities and substantial healthcare expenditure levels that facilitate the adoption of innovative treatments like inhaled nitric oxide are primarily bolstering the regional market growth. Moreover, North America benefits from extensive research and development initiatives, coupled with a favorable regulatory landscape, which have fostered the advancement and commercial availability of inhaled nitric oxide products in the region. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period owing to the rising prevalence of respiratory conditions such as chronic obstructive pulmonary disease (COPD), pulmonary hypertension, and neonatal hypoxic respiratory failure.

Major market player included in this report are:

Air Liquide Healthcare (France)
SOL Group (Italy)
Matheson Tri-Gas Inc. (United States)
Merck KGaA (Germany)
Mallinckrodt Pharmaceuticals (United Kingdom)
Nu-Med Plus Inc. (United States)
Perma Pure LLC (United States)
Praxair Distribution Inc. (United States)
HALMA PLC (United Kingdom)
LINDE PLC (Germany)

The detailed segments and sub-segment of the market are explained below:

By Application

Neonatal Respiratory Treatment
Chronic Obstructive Pulmonary Disease
Acute Respiratory Distress Syndrome
Others

By Region:

North America
U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil

Mexico
Middle East & Africa
Saudi Arabia
South Africa
RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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