

Inhaled Nitric Oxide Market - Global Industry Size,
Share, Trends, Opportunity, and Forecast, Segmented
By Product Type (Gas, Delivery Systems), By
Application (Neonatal Respiratory Treatment, Asthma
and COPD, Acute Respiratory Distress Syndrome,
Malaria Treatment, Tuberculosis Treatment, Other
Applications), By Region and Competition, 2020-2030F

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Abstracts

Global Inhaled Nitric Oxide Market was valued at USD 732.12 million in 2024 and is anticipated to project robust growth in the forecast period with a CAGR of 7.12% through 2030. The Global Inhaled Nitric Oxide (iNO) Market has emerged as a critical sector within the healthcare and pharmaceutical industry, playing a pivotal role in the management of various respiratory and cardiovascular disorders. Inhaled Nitric Oxide, a colorless and virtually odorless gas, has gained widespread recognition for its vasodilatory and anti-inflammatory properties, making it an essential therapeutic option. The market is witnessing significant growth due to the increasing prevalence of respiratory diseases such as chronic obstructive pulmonary disease (COPD), asthma, and acute respiratory distress syndrome (ARDS). The expanding applications of inhaled nitric oxide in neonatology, where it is employed to treat persistent pulmonary hypertension in newborns, contribute substantially to market expansion. For instance, in the U.S., the Food and Drug Administration (FDA) enforces strict guidelines for the approval and use of inhaled nitric oxide systems, which include extensive clinical trials and post-market surveillance. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) classifies nitric oxide as hazardous, requiring meticulous handling and disposal. These regulations are also applicable internationally, creating additional challenges for market participants operating globally.



The market is characterized by a surge in research and development activities, aiming to explore novel applications and enhance the efficacy of inhaled nitric oxide therapies. Pharmaceutical companies are actively engaged in clinical trials to assess the feasibility of inhaled nitric oxide in addressing conditions beyond its conventional use, such as in the treatment of COVID-19-related respiratory complications. This diversification of applications is fostering innovation and driving market growth.

Key Market Drivers

Rising Prevalence of Respiratory Disorders

The rising prevalence of respiratory disorders stands as a primary catalyst propelling the global inhaled nitric oxide (iNO) market to unprecedented heights. Over the past few years, there has been a noticeable surge in the incidence of respiratory conditions worldwide, creating an urgent demand for innovative and effective treatment modalities. Conditions such as acute respiratory distress syndrome (ARDS), chronic obstructive pulmonary disease (COPD), and pulmonary hypertension have become more prevalent, necessitating advanced therapeutic interventions. For instance, the Centers for Disease Control and Prevention reported that in 2022, approximately 1 in every 10 infants born in the U.S. was preterm. Preterm birth, defined as delivering a baby before 37 weeks of pregnancy, presents substantial health risks to infants, including respiratory distress syndrome and persistent pulmonary hypertension.

Inhaled nitric oxide has emerged as a crucial player in the healthcare sector, offering a promising solution for managing and improving outcomes in patients with respiratory disorders. Its vasodilatory effects and ability to enhance oxygenation make it particularly valuable in the treatment of conditions where respiratory function is compromised. The global healthcare landscape is witnessing a paradigm shift with an increasing focus on addressing respiratory health issues, and inhaled nitric oxide has positioned itself at the forefront of this transformative wave. For instance, according to April 2021 statistics from the Asthma and Allergy Foundation of America, approximately 20 million adults aged 18 and older in the United States suffer from asthma. This high prevalence of respiratory disorders in the country creates a steady demand for inhaled nitric oxide, contributing to the growth of the market in the United States.

Key Market Challenges

High Cost of Inhaled Nitric Oxide Treatment



The intricate processes involved in the production, storage, and delivery of inhaled nitric oxide contribute to the elevated overall treatment expenses. The cost-intensive nature of these procedures poses a challenge to the affordability of inhaled nitric oxide treatment, particularly in regions where healthcare budgets are constrained. Striking a delicate balance between ensuring profitability for manufacturers and affordability for healthcare systems is imperative for the sustained growth of the market.

The high cost of inhaled nitric oxide treatment exacerbates global disparities in healthcare access. Regions with limited financial resources may find it challenging to integrate this therapeutic option into their healthcare systems, potentially leaving patients without access to a treatment that could significantly improve their respiratory conditions. Bridging this accessibility gap requires concerted efforts to develop pricing models that accommodate diverse economic landscapes.

Key Market Trends

Rise Of Telehealth and Remote Patient Monitoring

The rise of telehealth and remote patient monitoring is playing a pivotal role in boosting the Global Inhaled Nitric Oxide (iNO) Market. As healthcare continues to evolve, telehealth platforms and remote monitoring technologies have become integral components in the management of respiratory disorders, contributing significantly to the growth of inhaled nitric oxide therapies. Telehealth facilitates virtual consultations, allowing healthcare providers to remotely assess patients' respiratory conditions, discuss symptoms, and make informed decisions about treatment plans. In the context of inhaled nitric oxide, this trend enables healthcare professionals to monitor patients' responses to treatment in real-time, adjusting dosages or interventions as necessary. This remote monitoring capability not only enhances the efficiency of healthcare delivery but also ensures that patients receive timely and personalized care, particularly in the management of chronic respiratory conditions such as chronic obstructive pulmonary disease (COPD) or asthma.

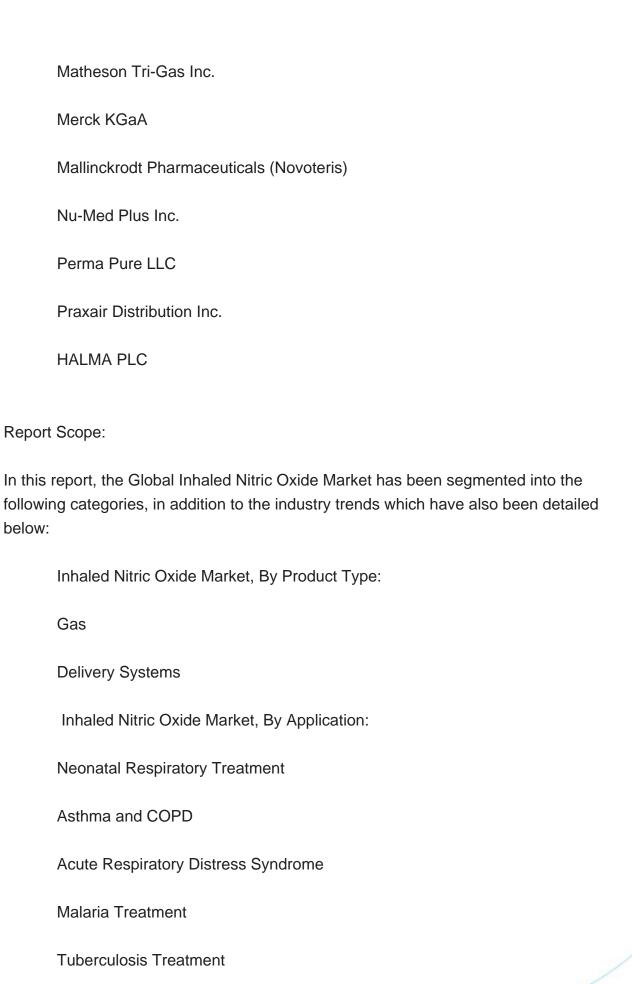
Key Market Players

Linde PLC

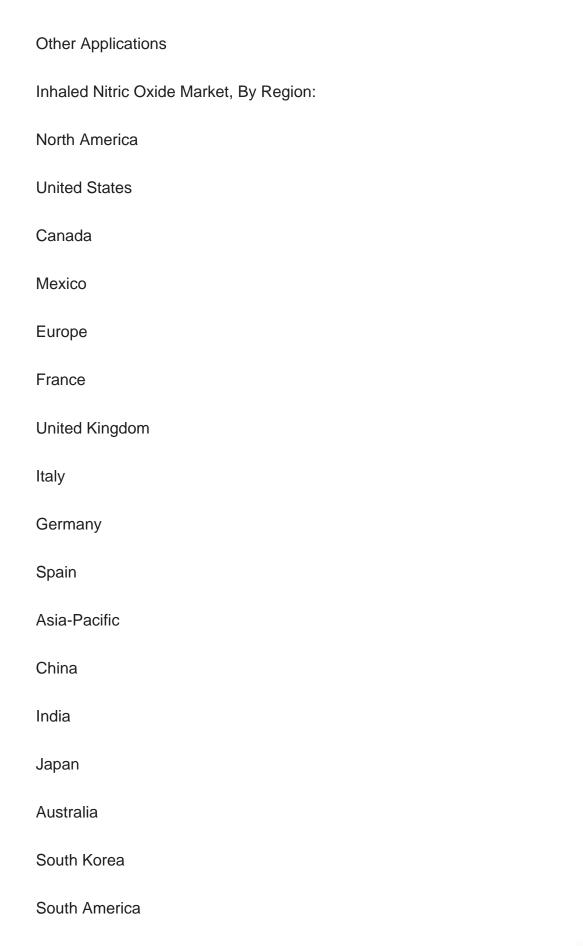
Air Liquide Healthcare

BOC Healthcare











Brazii
Argentina
Colombia
Middle East & Africa
South Africa
Saudi Arabia
UAE
Egypt
Competitive Landscape
Company Profiles: Detailed analysis of the major companies present in the Global Inhaled Nitric Oxide Market.
Available Customizations:
Global Inhaled Nitric Oxide Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:
Company Information
Detailed analysis and profiling of additional market players (up to five).



Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. GLOBAL INHALED NITRIC OXIDE MARKET OUTLOOK

- 4.1. Market Size & Forecast
 - 4.1.1. By Value
- 4.2. Market Share & Forecast
 - 4.2.1. By Product Type (Gas, Delivery Systems)
- 4.2.2. By Application (Neonatal Respiratory Treatment, Asthma and COPD, Acute Respiratory Distress Syndrome, Malaria Treatment, Tuberculosis Treatment, Other Applications)
 - 4.2.3. By Region
- 4.2.4. By Company (2024)



- 4.3. Market Map
 - 4.3.1. By Product Type
 - 4.3.2. By Application
 - 4.3.3. By Region

5. ASIA PACIFIC INHALED NITRIC OXIDE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Product Type
 - 5.2.2. By Application
 - 5.2.3. By Country
- 5.3. Asia Pacific: Country Analysis
 - 5.3.1. China Inhaled Nitric Oxide Market Outlook
 - 5.3.1.1. Market Size & Forecast
 - 5.3.1.1.1. By Value
 - 5.3.1.2. Market Share & Forecast
 - 5.3.1.2.1. By Product Type
 - 5.3.1.2.2. By Application
 - 5.3.2. India Inhaled Nitric Oxide Market Outlook
 - 5.3.2.1. Market Size & Forecast
 - 5.3.2.1.1. By Value
 - 5.3.2.2. Market Share & Forecast
 - 5.3.2.2.1. By Product Type
 - 5.3.2.2.2. By Application
 - 5.3.3. Australia Inhaled Nitric Oxide Market Outlook
 - 5.3.3.1. Market Size & Forecast
 - 5.3.3.1.1. By Value
 - 5.3.3.2. Market Share & Forecast
 - 5.3.3.2.1. By Product Type
 - 5.3.3.2.2. By Application
 - 5.3.4. Japan Inhaled Nitric Oxide Market Outlook
 - 5.3.4.1. Market Size & Forecast
 - 5.3.4.1.1. By Value
 - 5.3.4.2. Market Share & Forecast
 - 5.3.4.2.1. By Product Type
 - 5.3.4.2.2. By Application
 - 5.3.5. South Korea Inhaled Nitric Oxide Market Outlook



- 5.3.5.1. Market Size & Forecast
 - 5.3.5.1.1. By Value
- 5.3.5.2. Market Share & Forecast
 - 5.3.5.2.1. By Product Type
 - 5.3.5.2.2. By Application

6. EUROPE INHALED NITRIC OXIDE MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Product Type
 - 6.2.2. By Application
 - 6.2.3. By Country
- 6.3. Europe: Country Analysis
 - 6.3.1. France Inhaled Nitric Oxide Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Product Type
 - 6.3.1.2.2. By Application
 - 6.3.2. Germany Inhaled Nitric Oxide Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Product Type
 - 6.3.2.2.2. By Application
 - 6.3.3. Spain Inhaled Nitric Oxide Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Product Type
 - 6.3.3.2.2. By Application
 - 6.3.4. Italy Inhaled Nitric Oxide Market Outlook
 - 6.3.4.1. Market Size & Forecast
 - 6.3.4.1.1. By Value
 - 6.3.4.2. Market Share & Forecast
 - 6.3.4.2.1. By Product Type
 - 6.3.4.2.2. By Application



- 6.3.5. United Kingdom Inhaled Nitric Oxide Market Outlook
 - 6.3.5.1. Market Size & Forecast
 - 6.3.5.1.1. By Value
 - 6.3.5.2. Market Share & Forecast
 - 6.3.5.2.1. By Product Type
 - 6.3.5.2.2. By Application

7. NORTH AMERICA INHALED NITRIC OXIDE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Product Type
 - 7.2.2. By Application
 - 7.2.3. By Country
- 7.3. North America: Country Analysis
 - 7.3.1. United States Inhaled Nitric Oxide Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Product Type
 - 7.3.1.2.2. By Application
 - 7.3.2. Mexico Inhaled Nitric Oxide Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Product Type
 - 7.3.2.2.2. By Application
 - 7.3.3. Canada Inhaled Nitric Oxide Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Product Type
 - 7.3.3.2.2. By Application

8. SOUTH AMERICA INHALED NITRIC OXIDE MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value



- 8.2. Market Share & Forecast
 - 8.2.1. By Product Type
 - 8.2.2. By Application
 - 8.2.3. By Country
- 8.3. South America: Country Analysis
 - 8.3.1. Brazil Inhaled Nitric Oxide Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Product Type
 - 8.3.1.2.2. By Application
 - 8.3.2. Argentina Inhaled Nitric Oxide Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Product Type
 - 8.3.2.2.2. By Application
 - 8.3.3. Colombia Inhaled Nitric Oxide Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Product Type
 - 8.3.3.2.2. By Application

9. MIDDLE EAST AND AFRICA INHALED NITRIC OXIDE MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Product Type
 - 9.2.2. By Application
 - 9.2.3. By Country
- 9.3. MEA: Country Analysis
 - 9.3.1. South Africa Inhaled Nitric Oxide Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Product Type
 - 9.3.1.2.2. By Application



9.3.2. Saudi Arabia Inhaled Nitric Oxide Market Outlook

- 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
- 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Product Type
- 9.3.2.2.2. By Application
- 9.3.3. UAE Inhaled Nitric Oxide Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Product Type
 - 9.3.3.2.2. By Application
- 9.3.4. Egypt Inhaled Nitric Oxide Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Product Type
 - 9.3.4.2.2. By Application

10. MARKET DYNAMICS

- 10.1. Drivers
- 10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

- 11.1. Recent Developments
- 11.2. Product Launches
- 11.3. Mergers & Acquisitions

12. GLOBAL INHALED NITRIC OXIDE MARKET: SWOT ANALYSIS

13. PORTER'S FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Product



14. COMPETITIVE LANDSCAPE

- 14.1. Linde PLC
 - 14.1.1. Company Snapshot
 - 14.1.2. Products & Services
 - 14.1.3. Current Capacity Analysis
 - 14.1.4. Financials (In case of listed)
 - 14.1.5. Recent Developments
 - 14.1.6. SWOT Analysis
- 14.2. Air Liquide Healthcare
- 14.3. BOC Healthcare
- 14.4. Matheson Tri-Gas Inc.
- 14.5. Merck KGaA
- 14.6. Mallinckrodt Pharmaceuticals (Novoteris)
- 14.7. Nu-Med Plus Inc.
- 14.8. Perma Pure LLC
- 14.9. Praxair Distribution Inc.
- 14.10.HALMA PLC

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER



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