

Medical Gases Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global medical gases market size reached US\$ 13.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 20.9 Billion by 2028, exhibiting a growth rate (CAGR) of 7.3% during 2023-2028.

Medical gases play a pivotal role in the functioning of hospitals and other healthcare facilities, including operating rooms, pre-communicators, recovery rooms, debridement rooms, obstetrics and gynecology wards, intensive care unit (ICU) wards, and general wards. They generally include oxygen, nitrogen, nitrous oxide, argon, helium, carbon dioxide (CO₂), and compressed air, which are utilized in several medical procedures for treatment, anesthesia, and driving medical devices and tools. They are free from contamination, particles, oils, or odors and supplied in the dry form either in cylinders or from their central supply source through a piping network.

Medical Gases Market Trends:

The ongoing coronavirus disease (COVID-19) pandemic has triggered a medical emergency for oxygen gas, which is a safe and efficient treatment for patients experiencing breathing difficulties. In line with this, governments of numerous countries are focusing on importing and manufacturing medical oxygen gas to ensure its uninterrupted supply to COVID centers. Apart from this, medical gases like oxygen are used to treat specific health conditions, such as pneumonia, malaria, sepsis, and meningitis. This, in confluence with a significant rise in the number of individuals suffering from these ailments, is acting as another growth-inducing factor. Additionally, children and mothers are often administered medical oxygen to ease breathing when their lives are at risk during medical treatment. Besides this, the increasing prevalence of cancer and the need for surgical interventions are catalyzing the demand for liquid nitrogen as a cryogen to freeze and preserve blood, tissue, and other biological

specimens and destroy diseased tissue in dermatology and cryosurgery. Furthermore, the introduction of premium medical-grade gases and gas mixtures is anticipated to drive the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global medical gases market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on gas type, application and end user.

Breakup by Gas Type:

- Pure Gases
 - Medical Air
 - Medical Oxygen
 - Nitrous Oxide
 - Nitrogen
 - Carbon Dioxide
 - Helium
- Gas Mixtures
 - Aerobic Gas Mixtures
 - Anaerobic Gas Mixtures
 - Blood Gas Mixtures
 - Lung Diffusion Mixtures
 - Medical Laser Mixtures
 - Medical Drug Gas Mixtures
- Others

Breakup by Application:

- Therapeutic
- Diagnostic
- Biotechnology and Pharmaceutical Industry
- Others

Breakup by End User:

- Hospitals
- Home Healthcare

Academic and Research Institutions

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Air Products and Chemicals Inc., Airgas Inc. (Air Liquide S.A.), Ellenbarrie Industrial Gases Ltd, Linde plc, Matheson Tri-Gas Inc. (Mitsubishi Chemical Holdings Corporation), Messer Group GmbH, SCI Analytical Laboratories Inc, Sharjah Oxygen Company and SOL Spa.

Key Questions Answered in This Report:

How has the global medical gases market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global medical gases market?

What are the key regional markets?

What is the breakup of the market based on the gas type?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global medical gases market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL MEDICAL GASES MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY GAS TYPE

- 6.1 Pure Gases
 - 6.1.1 Market Trends
 - 6.1.2 Key Segments
 - 6.1.2.1 Medical Air
 - 6.1.2.2 Medical Oxygen
 - 6.1.2.3 Nitrous Oxide
 - 6.1.2.4 Nitrogen

6.1.2.5 Carbon Dioxide

6.1.2.6 Helium

6.1.3 Market Forecast

6.2 Gas Mixtures

6.2.1 Market Trends

6.2.2 Key Segments

6.2.2.1 Aerobic Gas Mixtures

6.2.2.2 Anaerobic Gas Mixtures

6.2.2.3 Blood Gas Mixtures

6.2.2.4 Lung Diffusion Mixtures

6.2.2.5 Medical Laser Mixtures

6.2.2.6 Medical Drug Gas Mixtures

6.2.2.7 Others

6.2.3 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Therapeutic

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Diagnostic

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Biotechnology and Pharmaceutical Industry

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Others

7.4.1 Market Trends

7.4.2 Market Forecast

8 MARKET BREAKUP BY END USER

8.1 Hospitals

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Home Healthcare

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Academic and Research Institutions

8.3.1 Market Trends

8.3.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

9.3.1.2 Market Forecast

9.3.2 France

- 9.3.2.1 Market Trends
- 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
- 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 Air Products and Chemicals Inc.
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.1.4 SWOT Analysis
 - 14.3.2 Airgas Inc. (Air Liquide S.A.)
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.3 Ellenbarrie Industrial Gases Ltd
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.4 Linde plc
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
 - 14.3.5 Matheson Tri-Gas Inc. (Mitsubishi Chemical Holdings Corporation)
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.6 Messer Group GmbH
 - 14.3.6.1 Company Overview

- 14.3.6.2 Product Portfolio
- 14.3.7 SCI Analytical Laboratories Inc
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
- 14.3.8 Sharjah Oxygen Company
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
- 14.3.9 SOL Spa
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials

List Of Tables

LIST OF TABLES

Table 1: Global: Medical Gases Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Medical Gases Market Forecast: Breakup by Gas Type (in Million US\$), 2023-2028

Table 3: Global: Medical Gases Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Medical Gases Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 5: Global: Medical Gases Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Medical Gases Market: Competitive Structure

Table 7: Global: Medical Gases Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Medical Gases Market: Major Drivers and Challenges

Figure 2: Global: Medical Gases Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Medical Gases Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Medical Gases Market: Breakup by Gas Type (in %), 2022

Figure 5: Global: Medical Gases Market: Breakup by Application (in %), 2022

Figure 6: Global: Medical Gases Market: Breakup by End User (in %), 2022

Figure 7: Global: Medical Gases Market: Breakup by Region (in %), 2022

Figure 8: Global: Medical Gases (Pure Gases) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: Medical Gases (Pure Gases) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: Medical Gases (Gas Mixtures) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Medical Gases (Gas Mixtures) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Medical Gases (Therapeutic) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Medical Gases (Therapeutic) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Medical Gases (Diagnostic) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Medical Gases (Diagnostic) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Medical Gases (Biotechnology and Pharmaceutical Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Medical Gases (Biotechnology and Pharmaceutical Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Medical Gases (Other Applications) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Medical Gases (Other Applications) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Medical Gases (Hospitals) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Medical Gases (Hospitals) Market Forecast: Sales Value (in Million US\$), 2023-2028

US\$), 2023-2028

Figure 22: Global: Medical Gases (Home Healthcare) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Medical Gases (Home Healthcare) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Medical Gases (Academic and Research Institutions) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Medical Gases (Academic and Research Institutions) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: North America: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: North America: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: United States: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: United States: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Canada: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Canada: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Asia-Pacific: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Asia-Pacific: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: China: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: China: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: Japan: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: Japan: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: India: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: India: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: South Korea: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 41: South Korea: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: Australia: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: Australia: Medical Gases Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 44: Indonesia: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: Indonesia: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: Others: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: Others: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Europe: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Europe: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: Germany: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Germany: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: France: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: France: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: United Kingdom: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: United Kingdom: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: Italy: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: Italy: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: Spain: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Spain: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: Russia: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: Russia: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 62: Others: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: Others: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: Latin America: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: Latin America: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: Brazil: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Brazil: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Mexico: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Mexico: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Others: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Others: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Middle East and Africa: Medical Gases Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Middle East and Africa: Medical Gases Market: Breakup by Country (in %), 2022

Figure 74: Middle East and Africa: Medical Gases Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Global: Medical Gases Industry: SWOT Analysis

Figure 76: Global: Medical Gases Industry: Value Chain Analysis

Figure 77: Global: Medical Gases Industry: Porter's Five Forces Analysis

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