

Global Liquid Helium Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G8EE78C7B545EN.html>

Date: June 2026

Pages: 135

Price: US\$ 4,480.00 (Single User License)

ID: G8EE78C7B545EN

Abstracts

The global Liquid Helium market size is expected to reach \$ 1882 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Liquid Helium refers to a cryogenic liquid helium product produced from helium-bearing natural gas, nitrogen-rich gas or other helium-containing feed gas sources through helium recovery, purification and deep cryogenic liquefaction. It is typically stored and transported at around 4.2 K in specialized cryogenic tanks, liquid helium ISO containers, dewars or cryogenic trailers. The scope covers commercially delivered high-purity helium in liquid form and excludes crude helium, gaseous helium, helium-bearing feed gas, resource interests and pure import or distribution services. Liquid helium has an extremely low boiling point, strong cryogenic cooling capability, chemical inertness and non-flammable characteristics, making it a critical cryogenic medium for MRI superconducting magnets, particle physics, low-temperature research, quantum computing, superconducting materials research, aerospace testing and selected advanced semiconductor processes. Major source-producing countries include Qatar, the United States, Algeria, Russia, Poland, Canada and South Africa, with Qatar's Ras Laffan facilities, ExxonMobil's LaBarge assets in the United States, Algeria's LNG-associated helium projects, Russia's Amur-related helium system and Poland's Odolanów facility forming important parts of the global liquid helium supply base. USGS 2026 reported global helium production of about 190 million cubic meters in 2025 and an estimated Grade-A helium base price of about USD 12 per cubic meter, with producer surcharges commonly applied; Reuters also noted that liquid helium supply is highly exposed to natural gas processing, LNG operations, cryogenic logistics and long-term contract structures.

In 2025, global liquid helium production reached approximately 68 million to 78 million

cubic meters on a gaseous-equivalent basis. Source-level FOB prices were mainly in the range of USD 14.50 to USD 17.50 per cubic meter on a gaseous-equivalent basis, with long-term contract supply generally priced below shortage-driven spot levels and high-reliability supply for MRI, cryogenic research, semiconductor and aerospace customers priced at a premium.

The global liquid helium industry is shifting from a conventional cryogenic industrial gas market to a strategic materials market. Its core value does not come from bulk consumption alone, but from its irreplaceability in ultra-low-temperature, superconducting and advanced research systems. MRI superconducting magnets, quantum computing devices, particle physics facilities, superconducting materials research, low-temperature detectors and aerospace testing systems all depend heavily on stable liquid helium supply. As investment in medical imaging equipment, quantum technologies, advanced semiconductors, AI chips, space launch systems and large scientific infrastructure continues to expand, liquid helium demand is extending from traditional medical and research applications toward broader advanced manufacturing and strategic technology use cases, while pricing is increasingly shaped by supply security, cryogenic logistics capacity and long-term supply assurance.

At the same time, the liquid helium supply chain is more fragile than that of standard industrial gases. Liquid helium cannot be economically produced directly through air separation; it depends mainly on helium recovery from natural gas, followed by purification, liquefaction, cryogenic storage and specialized container logistics. Reuters reported in 2026 that Qatar's LNG production halt exposed the fragility of the global liquid helium supply chain, as limited spare production capacity, unique liquid helium shipping constraints and a long-term-contract-driven trading structure can amplify market volatility. Going forward, source resource development, large-scale liquefaction capacity, cryogenic ISO container availability, long-term MRI and semiconductor supply contracts, non-hydrocarbon helium development and helium recovery systems will be among the most valuable areas for market research across the liquid helium value chain.

This report studies the global Liquid Helium production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Helium 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 Liquid Helium that contribute to its

increasing demand across many markets.

Highlights and key features of the study

Global Liquid Helium total production and demand, 2021-2032, (Cubic Meter)

Global Liquid Helium total production value, 2021-2032, (USD Million)

Global Liquid Helium production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Cubic Meter), (based on production site)

Global Liquid Helium consumption by region & country, CAGR, 2021-2032 & (Cubic Meter)

U.S. VS China: Liquid Helium domestic production, consumption, key domestic manufacturers and share

Global Liquid Helium production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Cubic Meter)

Global Liquid Helium production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Cubic Meter)

Global Liquid Helium production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Cubic Meter)

This report profiles key players in the global Liquid Helium 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 QatarEnergy LNG, Exxon Mobil Corporation, SONATRACH S.p.A., Air Products and Chemicals, Inc., Linde plc, Air Liquide S.A., Gazprom PJSC, ORLEN S.A., North American Helium Inc., Tumbleweed Midstream, LLC, 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 Liquid Helium market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Cubic Meter) and average price (US\$/Cubic Meter) 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 Liquid Helium Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Helium Market, Segmentation by Type:

Grade A Liquid Helium

High Purity Liquid Helium

Ultra High Purity Liquid Helium

Others

Global Liquid Helium Market, Segmentation by Supply Form:

Bulk Liquid Helium

ISO Container Liquid Helium

Dewar Liquid Helium

Others

Global Liquid Helium Market, Segmentation by Feed Gas Type:

LNG Associated Natural Gas

Hydrocarbon Natural Gas

Nitrogen Rich Gas

Others

Global Liquid Helium Market, Segmentation by Purity Level:

99.997% Liquid Helium

99.999% Liquid Helium

Above 99.999% Liquid Helium

Others

Global Liquid Helium Market, Segmentation by Application:

MRI and Medical Cryogenics

Scientific Research and Quantum Technology

Semiconductor and Advanced Manufacturing

Aerospace and Industrial Cryogenics

Companies Profiled:

QatarEnergy LNG

Exxon Mobil Corporation

SONATRACH S.p.A.

Air Products and Chemicals, Inc.

Linde plc

Air Liquide S.A.

Gazprom PJSC

ORLEN S.A.

North American Helium Inc.

Tumbleweed Midstream, LLC

ASP Isotopes Inc.

Jiangxi Jovo Energy Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Liquid Helium Introduction
- 1.2 World Liquid Helium Supply & Forecast
 - 1.2.1 World Liquid Helium Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Liquid Helium Production (2021-2032)
 - 1.2.3 World Liquid Helium Pricing Trends (2021-2032)
- 1.3 World Liquid Helium Production by Region (Based on Production Site)
 - 1.3.1 World Liquid Helium Production Value by Region (2021-2032)
 - 1.3.2 World Liquid Helium Production by Region (2021-2032)
 - 1.3.3 World Liquid Helium Average Price by Region (2021-2032)
 - 1.3.4 North America Liquid Helium Production (2021-2032)
 - 1.3.5 Europe Liquid Helium Production (2021-2032)
 - 1.3.6 Middle East Liquid Helium Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Liquid Helium Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Liquid Helium Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Liquid Helium Demand (2021-2032)
- 2.2 World Liquid Helium Consumption by Region
 - 2.2.1 World Liquid Helium Consumption by Region (2021-2026)
 - 2.2.2 World Liquid Helium Consumption Forecast by Region (2027-2032)
- 2.3 United States Liquid Helium Consumption (2021-2032)
- 2.4 China Liquid Helium Consumption (2021-2032)
- 2.5 Europe Liquid Helium Consumption (2021-2032)
- 2.6 Japan Liquid Helium Consumption (2021-2032)
- 2.7 South Korea Liquid Helium Consumption (2021-2032)
- 2.8 ASEAN Liquid Helium Consumption (2021-2032)
- 2.9 India Liquid Helium Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Liquid Helium Production Value by Manufacturer (2021-2026)
- 3.2 World Liquid Helium Production by Manufacturer (2021-2026)

3.3 World Liquid Helium Average Price by Manufacturer (2021-2026)

3.4 Liquid Helium Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Liquid Helium Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Liquid Helium in 2025

3.5.3 Global Concentration Ratios (CR8) for Liquid Helium in 2025

3.6 Liquid Helium Market: Overall Company Footprint Analysis

3.6.1 Liquid Helium Market: Region Footprint

3.6.2 Liquid Helium Market: Company Product Type Footprint

3.6.3 Liquid Helium Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Liquid Helium Production Value Comparison

4.1.1 United States VS China: Liquid Helium Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Liquid Helium Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Liquid Helium Production Comparison

4.2.1 United States VS China: Liquid Helium Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Liquid Helium Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Liquid Helium Consumption Comparison

4.3.1 United States VS China: Liquid Helium Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Liquid Helium Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Liquid Helium Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Liquid Helium Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Liquid Helium Production Value (2021-2026)

4.4.3 United States Based Manufacturers Liquid Helium Production (2021-2026)

4.5 China Based Liquid Helium Manufacturers and Market Share

4.5.1 China Based Liquid Helium Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Liquid Helium Production Value (2021-2026)

4.5.3 China Based Manufacturers Liquid Helium Production (2021-2026)

4.6 Rest of World Based Liquid Helium Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Liquid Helium Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Liquid Helium Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Liquid Helium Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Liquid Helium Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Grade A Liquid Helium

5.2.2 High Purity Liquid Helium

5.2.3 Ultra High Purity Liquid Helium

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Liquid Helium Production by Type (2021-2032)

5.3.2 World Liquid Helium Production Value by Type (2021-2032)

5.3.3 World Liquid Helium Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SUPPLY FORM

6.1 World Liquid Helium Market Size Overview by Supply Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Supply Form

6.2.1 Bulk Liquid Helium

6.2.2 ISO Container Liquid Helium

6.2.3 Dewar Liquid Helium

6.2.4 Others

6.3 Market Segment by Supply Form

6.3.1 World Liquid Helium Production by Supply Form (2021-2032)

6.3.2 World Liquid Helium Production Value by Supply Form (2021-2032)

6.3.3 World Liquid Helium Average Price by Supply Form (2021-2032)

7 MARKET ANALYSIS BY FEED GAS TYPE

7.1 World Liquid Helium Market Size Overview by Feed Gas Type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Feed Gas Type

7.2.1 LNG Associated Natural Gas

7.2.2 Hydrocarbon Natural Gas

7.2.3 Nitrogen Rich Gas

7.2.4 Others

7.3 Market Segment by Feed Gas Type

7.3.1 World Liquid Helium Production by Feed Gas Type (2021-2032)

7.3.2 World Liquid Helium Production Value by Feed Gas Type (2021-2032)

7.3.3 World Liquid Helium Average Price by Feed Gas Type (2021-2032)

8 MARKET ANALYSIS BY PURITY LEVEL

8.1 World Liquid Helium Market Size Overview by Purity Level: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Purity Level

8.2.1 99.997% Liquid Helium

8.2.2 99.999% Liquid Helium

8.2.3 Above 99.999% Liquid Helium

8.2.4 Others

8.3 Market Segment by Purity Level

8.3.1 World Liquid Helium Production by Purity Level (2021-2032)

8.3.2 World Liquid Helium Production Value by Purity Level (2021-2032)

8.3.3 World Liquid Helium Average Price by Purity Level (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Liquid Helium Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 MRI and Medical Cryogenics

9.2.2 Scientific Research and Quantum Technology

9.2.3 Semiconductor and Advanced Manufacturing

9.2.4 Aerospace and Industrial Cryogenics

9.3 Market Segment by Application

9.3.1 World Liquid Helium Production by Application (2021-2032)

9.3.2 World Liquid Helium Production Value by Application (2021-2032)

9.3.3 World Liquid Helium Average Price by Application (2021-2032)

10 COMPANY PROFILES

10.1 QatarEnergy LNG

10.1.1 QatarEnergy LNG Details

10.1.2 QatarEnergy LNG Major Business

10.1.3 QatarEnergy LNG Liquid Helium Product and Services

10.1.4 QatarEnergy LNG Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 QatarEnergy LNG Recent Developments/Updates

10.1.6 QatarEnergy LNG Competitive Strengths & Weaknesses

10.2 Exxon Mobil Corporation

10.2.1 Exxon Mobil Corporation Details

10.2.2 Exxon Mobil Corporation Major Business

10.2.3 Exxon Mobil Corporation Liquid Helium Product and Services

10.2.4 Exxon Mobil Corporation Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Exxon Mobil Corporation Recent Developments/Updates

10.2.6 Exxon Mobil Corporation Competitive Strengths & Weaknesses

10.3 SONATRACH S.p.A.

10.3.1 SONATRACH S.p.A. Details

10.3.2 SONATRACH S.p.A. Major Business

10.3.3 SONATRACH S.p.A. Liquid Helium Product and Services

10.3.4 SONATRACH S.p.A. Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 SONATRACH S.p.A. Recent Developments/Updates

10.3.6 SONATRACH S.p.A. Competitive Strengths & Weaknesses

10.4 Air Products and Chemicals, Inc.

10.4.1 Air Products and Chemicals, Inc. Details

10.4.2 Air Products and Chemicals, Inc. Major Business

10.4.3 Air Products and Chemicals, Inc. Liquid Helium Product and Services

10.4.4 Air Products and Chemicals, Inc. Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 Air Products and Chemicals, Inc. Recent Developments/Updates

10.4.6 Air Products and Chemicals, Inc. Competitive Strengths & Weaknesses

10.5 Linde plc

10.5.1 Linde plc Details

10.5.2 Linde plc Major Business

10.5.3 Linde plc Liquid Helium Product and Services

10.5.4 Linde plc Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.5.5 Linde plc Recent Developments/Updates
- 10.5.6 Linde plc Competitive Strengths & Weaknesses
- 10.6 Air Liquide S.A.
 - 10.6.1 Air Liquide S.A. Details
 - 10.6.2 Air Liquide S.A. Major Business
 - 10.6.3 Air Liquide S.A. Liquid Helium Product and Services
 - 10.6.4 Air Liquide S.A. Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.6.5 Air Liquide S.A. Recent Developments/Updates
 - 10.6.6 Air Liquide S.A. Competitive Strengths & Weaknesses
- 10.7 Gazprom PJSC
 - 10.7.1 Gazprom PJSC Details
 - 10.7.2 Gazprom PJSC Major Business
 - 10.7.3 Gazprom PJSC Liquid Helium Product and Services
 - 10.7.4 Gazprom PJSC Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.7.5 Gazprom PJSC Recent Developments/Updates
 - 10.7.6 Gazprom PJSC Competitive Strengths & Weaknesses
- 10.8 ORLEN S.A.
 - 10.8.1 ORLEN S.A. Details
 - 10.8.2 ORLEN S.A. Major Business
 - 10.8.3 ORLEN S.A. Liquid Helium Product and Services
 - 10.8.4 ORLEN S.A. Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.8.5 ORLEN S.A. Recent Developments/Updates
 - 10.8.6 ORLEN S.A. Competitive Strengths & Weaknesses
- 10.9 North American Helium Inc.
 - 10.9.1 North American Helium Inc. Details
 - 10.9.2 North American Helium Inc. Major Business
 - 10.9.3 North American Helium Inc. Liquid Helium Product and Services
 - 10.9.4 North American Helium Inc. Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.9.5 North American Helium Inc. Recent Developments/Updates
 - 10.9.6 North American Helium Inc. Competitive Strengths & Weaknesses
- 10.10 Tumbleweed Midstream, LLC
 - 10.10.1 Tumbleweed Midstream, LLC Details
 - 10.10.2 Tumbleweed Midstream, LLC Major Business
 - 10.10.3 Tumbleweed Midstream, LLC Liquid Helium Product and Services
 - 10.10.4 Tumbleweed Midstream, LLC Liquid Helium Production, Price, Value, Gross

Margin and Market Share (2021-2026)

10.10.5 Tumbleweed Midstream, LLC Recent Developments/Updates

10.10.6 Tumbleweed Midstream, LLC Competitive Strengths & Weaknesses

10.11 ASP Isotopes Inc.

10.11.1 ASP Isotopes Inc. Details

10.11.2 ASP Isotopes Inc. Major Business

10.11.3 ASP Isotopes Inc. Liquid Helium Product and Services

10.11.4 ASP Isotopes Inc. Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.11.5 ASP Isotopes Inc. Recent Developments/Updates

10.11.6 ASP Isotopes Inc. Competitive Strengths & Weaknesses

10.12 Jiangxi Jovo Energy Co., Ltd.

10.12.1 Jiangxi Jovo Energy Co., Ltd. Details

10.12.2 Jiangxi Jovo Energy Co., Ltd. Major Business

10.12.3 Jiangxi Jovo Energy Co., Ltd. Liquid Helium Product and Services

10.12.4 Jiangxi Jovo Energy Co., Ltd. Liquid Helium Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.12.5 Jiangxi Jovo Energy Co., Ltd. Recent Developments/Updates

10.12.6 Jiangxi Jovo Energy Co., Ltd. Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Liquid Helium Industry Chain

11.2 Liquid Helium Upstream Analysis

11.2.1 Liquid Helium Core Raw Materials

11.2.2 Main Manufacturers of Liquid Helium Core Raw Materials

11.3 Midstream Analysis

11.4 Downstream Analysis

11.5 Liquid Helium Production Mode

11.6 Liquid Helium Procurement Model

11.7 Liquid Helium Industry Sales Model and Sales Channels

11.7.1 Liquid Helium Sales Model

11.7.2 Liquid Helium Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology

13.2 Research Process and Data Source

13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Liquid Helium Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Liquid Helium Production Value by Region (2021-2026) & (USD Million)

Table 3. World Liquid Helium Production Value by Region (2027-2032) & (USD Million)

Table 4. World Liquid Helium Production Value Market Share by Region (2021-2026)

Table 5. World Liquid Helium Production Value Market Share by Region (2027-2032)

Table 6. World Liquid Helium Production by Region (2021-2026) & (Cubic Meter)

Table 7. World Liquid Helium Production by Region (2027-2032) & (Cubic Meter)

Table 8. World Liquid Helium Production Market Share by Region (2021-2026)

Table 9. World Liquid Helium Production Market Share by Region (2027-2032)

Table 10. World Liquid Helium Average Price by Region (2021-2026) & (US\$/Cubic Meter)

Table 11. World Liquid Helium Average Price by Region (2027-2032) & (US\$/Cubic Meter)

Table 12. Liquid Helium Major Market Trends

Table 13. World Liquid Helium Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Cubic Meter)

Table 14. World Liquid Helium Consumption by Region (2021-2026) & (Cubic Meter)

Table 15. World Liquid Helium Consumption Forecast by Region (2027-2032) & (Cubic Meter)

Table 16. World Liquid Helium Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Liquid Helium Producers in 2025

Table 18. World Liquid Helium Production by Manufacturer (2021-2026) & (Cubic Meter)

Table 19. Production Market Share of Key Liquid Helium Producers in 2025

Table 20. World Liquid Helium Average Price by Manufacturer (2021-2026) & (US\$/Cubic Meter)

Table 21. Global Liquid Helium Company Evaluation Quadrant

Table 22. World Liquid Helium Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Liquid Helium Production Site of Key Manufacturer

Table 24. Liquid Helium Market: Company Product Type Footprint

Table 25. Liquid Helium Market: Company Product Application Footprint

Table 26. Liquid Helium Competitive Factors

Table 27. Liquid Helium New Entrant and Capacity Expansion Plans

Table 28. Liquid Helium Mergers & Acquisitions Activity
Table 29. United States VS China Liquid Helium Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Liquid Helium Production Comparison, (2021 & 2025 & 2032) & (Cubic Meter)
Table 31. United States VS China Liquid Helium Consumption Comparison, (2021 & 2025 & 2032) & (Cubic Meter)
Table 32. United States Based Liquid Helium Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Liquid Helium Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Liquid Helium Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Liquid Helium Production (2021-2026) & (Cubic Meter)
Table 36. United States Based Manufacturers Liquid Helium Production Market Share (2021-2026)
Table 37. China Based Liquid Helium Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Liquid Helium Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Liquid Helium Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Liquid Helium Production, (2021-2026) & (Cubic Meter)
Table 41. China Based Manufacturers Liquid Helium Production Market Share (2021-2026)
Table 42. Rest of World Based Liquid Helium Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Liquid Helium Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Liquid Helium Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Liquid Helium Production, (2021-2026) & (Cubic Meter)
Table 46. Rest of World Based Manufacturers Liquid Helium Production Market Share (2021-2026)
Table 47. World Liquid Helium Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Liquid Helium Production by Type (2021-2026) & (Cubic Meter)

Table 49. World Liquid Helium Production by Type (2027-2032) & (Cubic Meter)

Table 50. World Liquid Helium Production Value by Type (2021-2026) & (USD Million)

Table 51. World Liquid Helium Production Value by Type (2027-2032) & (USD Million)

Table 52. World Liquid Helium Average Price by Type (2021-2026) & (US\$/Cubic Meter)

Table 53. World Liquid Helium Average Price by Type (2027-2032) & (US\$/Cubic Meter)

Table 54. World Liquid Helium Production Value by Supply Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Liquid Helium Production by Supply Form (2021-2026) & (Cubic Meter)

Table 56. World Liquid Helium Production by Supply Form (2027-2032) & (Cubic Meter)

Table 57. World Liquid Helium Production Value by Supply Form (2021-2026) & (USD Million)

Table 58. World Liquid Helium Production Value by Supply Form (2027-2032) & (USD Million)

Table 59. World Liquid Helium Average Price by Supply Form (2021-2026) & (US\$/Cubic Meter)

Table 60. World Liquid Helium Average Price by Supply Form (2027-2032) & (US\$/Cubic Meter)

Table 61. World Liquid Helium Production Value by Feed Gas Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Liquid Helium Production by Feed Gas Type (2021-2026) & (Cubic Meter)

Table 63. World Liquid Helium Production by Feed Gas Type (2027-2032) & (Cubic Meter)

Table 64. World Liquid Helium Production Value by Feed Gas Type (2021-2026) & (USD Million)

Table 65. World Liquid Helium Production Value by Feed Gas Type (2027-2032) & (USD Million)

Table 66. World Liquid Helium Average Price by Feed Gas Type (2021-2026) & (US\$/Cubic Meter)

Table 67. World Liquid Helium Average Price by Feed Gas Type (2027-2032) & (US\$/Cubic Meter)

Table 68. World Liquid Helium Production Value by Purity Level, (USD Million), 2021 & 2025 & 2032

Table 69. World Liquid Helium Production by Purity Level (2021-2026) & (Cubic Meter)

Table 70. World Liquid Helium Production by Purity Level (2027-2032) & (Cubic Meter)

Table 71. World Liquid Helium Production Value by Purity Level (2021-2026) & (USD

Million)

Table 72. World Liquid Helium Production Value by Purity Level (2027-2032) & (USD Million)

Table 73. World Liquid Helium Average Price by Purity Level (2021-2026) & (US\$/Cubic Meter)

Table 74. World Liquid Helium Average Price by Purity Level (2027-2032) & (US\$/Cubic Meter)

Table 75. World Liquid Helium Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Liquid Helium Production by Application (2021-2026) & (Cubic Meter)

Table 77. World Liquid Helium Production by Application (2027-2032) & (Cubic Meter)

Table 78. World Liquid Helium Production Value by Application (2021-2026) & (USD Million)

Table 79. World Liquid Helium Production Value by Application (2027-2032) & (USD Million)

Table 80. World Liquid Helium Average Price by Application (2021-2026) & (US\$/Cubic Meter)

Table 81. World Liquid Helium Average Price by Application (2027-2032) & (US\$/Cubic Meter)

Table 82. QatarEnergy LNG Basic Information, Manufacturing Base and Competitors

Table 83. QatarEnergy LNG Major Business

Table 84. QatarEnergy LNG Liquid Helium Product and Services

Table 85. QatarEnergy LNG Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. QatarEnergy LNG Recent Developments/Updates

Table 87. QatarEnergy LNG Competitive Strengths & Weaknesses

Table 88. Exxon Mobil Corporation Basic Information, Manufacturing Base and Competitors

Table 89. Exxon Mobil Corporation Major Business

Table 90. Exxon Mobil Corporation Liquid Helium Product and Services

Table 91. Exxon Mobil Corporation Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Exxon Mobil Corporation Recent Developments/Updates

Table 93. Exxon Mobil Corporation Competitive Strengths & Weaknesses

Table 94. SONATRACH S.p.A. Basic Information, Manufacturing Base and Competitors

Table 95. SONATRACH S.p.A. Major Business

Table 96. SONATRACH S.p.A. Liquid Helium Product and Services

Table 97. SONATRACH S.p.A. Liquid Helium Production (Cubic Meter), Price

(US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. SONATRACH S.p.A. Recent Developments/Updates

Table 99. SONATRACH S.p.A. Competitive Strengths & Weaknesses

Table 100. Air Products and Chemicals, Inc. Basic Information, Manufacturing Base and Competitors

Table 101. Air Products and Chemicals, Inc. Major Business

Table 102. Air Products and Chemicals, Inc. Liquid Helium Product and Services

Table 103. Air Products and Chemicals, Inc. Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Air Products and Chemicals, Inc. Recent Developments/Updates

Table 105. Air Products and Chemicals, Inc. Competitive Strengths & Weaknesses

Table 106. Linde plc Basic Information, Manufacturing Base and Competitors

Table 107. Linde plc Major Business

Table 108. Linde plc Liquid Helium Product and Services

Table 109. Linde plc Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Linde plc Recent Developments/Updates

Table 111. Linde plc Competitive Strengths & Weaknesses

Table 112. Air Liquide S.A. Basic Information, Manufacturing Base and Competitors

Table 113. Air Liquide S.A. Major Business

Table 114. Air Liquide S.A. Liquid Helium Product and Services

Table 115. Air Liquide S.A. Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Air Liquide S.A. Recent Developments/Updates

Table 117. Air Liquide S.A. Competitive Strengths & Weaknesses

Table 118. Gazprom PJSC Basic Information, Manufacturing Base and Competitors

Table 119. Gazprom PJSC Major Business

Table 120. Gazprom PJSC Liquid Helium Product and Services

Table 121. Gazprom PJSC Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Gazprom PJSC Recent Developments/Updates

Table 123. Gazprom PJSC Competitive Strengths & Weaknesses

Table 124. ORLEN S.A. Basic Information, Manufacturing Base and Competitors

Table 125. ORLEN S.A. Major Business

Table 126. ORLEN S.A. Liquid Helium Product and Services

Table 127. ORLEN S.A. Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. ORLEN S.A. Recent Developments/Updates
Table 129. ORLEN S.A. Competitive Strengths & Weaknesses
Table 130. North American Helium Inc. Basic Information, Manufacturing Base and Competitors
Table 131. North American Helium Inc. Major Business
Table 132. North American Helium Inc. Liquid Helium Product and Services
Table 133. North American Helium Inc. Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 134. North American Helium Inc. Recent Developments/Updates
Table 135. North American Helium Inc. Competitive Strengths & Weaknesses
Table 136. Tumbleweed Midstream, LLC Basic Information, Manufacturing Base and Competitors
Table 137. Tumbleweed Midstream, LLC Major Business
Table 138. Tumbleweed Midstream, LLC Liquid Helium Product and Services
Table 139. Tumbleweed Midstream, LLC Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 140. Tumbleweed Midstream, LLC Recent Developments/Updates
Table 141. Tumbleweed Midstream, LLC Competitive Strengths & Weaknesses
Table 142. ASP Isotopes Inc. Basic Information, Manufacturing Base and Competitors
Table 143. ASP Isotopes Inc. Major Business
Table 144. ASP Isotopes Inc. Liquid Helium Product and Services
Table 145. ASP Isotopes Inc. Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 146. ASP Isotopes Inc. Recent Developments/Updates
Table 147. ASP Isotopes Inc. Competitive Strengths & Weaknesses
Table 148. Jiangxi Jovo Energy Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 149. Jiangxi Jovo Energy Co., Ltd. Major Business
Table 150. Jiangxi Jovo Energy Co., Ltd. Liquid Helium Product and Services
Table 151. Jiangxi Jovo Energy Co., Ltd. Liquid Helium Production (Cubic Meter), Price (US\$/Cubic Meter), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 152. Jiangxi Jovo Energy Co., Ltd. Recent Developments/Updates
Table 153. Jiangxi Jovo Energy Co., Ltd. Competitive Strengths & Weaknesses
Table 154. Global Key Players of Liquid Helium Upstream (Raw Materials)
Table 155. Global Liquid Helium Typical Customers
Table 156. Liquid Helium Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Liquid Helium Picture

Figure 2. World Liquid Helium Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Liquid Helium Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Liquid Helium Production (2021-2032) & (Cubic Meter)

Figure 5. World Liquid Helium Average Price (2021-2032) & (US\$/Cubic Meter)

Figure 6. World Liquid Helium Production Value Market Share by Region (2021-2032)

Figure 7. World Liquid Helium Production Market Share by Region (2021-2032)

Figure 8. North America Liquid Helium Production (2021-2032) & (Cubic Meter)

Figure 9. Europe Liquid Helium Production (2021-2032) & (Cubic Meter)

Figure 10. Middle East Liquid Helium Production (2021-2032) & (Cubic Meter)

Figure 11. Liquid Helium Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Liquid Helium Consumption (2021-2032) & (Cubic Meter)

Figure 14. World Liquid Helium Consumption Market Share by Region (2021-2032)

Figure 15. United States Liquid Helium Consumption (2021-2032) & (Cubic Meter)

Figure 16. China Liquid Helium Consumption (2021-2032) & (Cubic Meter)

Figure 17. Europe Liquid Helium Consumption (2021-2032) & (Cubic Meter)

Figure 18. Japan Liquid Helium Consumption (2021-2032) & (Cubic Meter)

Figure 19. South Korea Liquid Helium Consumption (2021-2032) & (Cubic Meter)

Figure 20. ASEAN Liquid Helium Consumption (2021-2032) & (Cubic Meter)

Figure 21. India Liquid Helium Consumption (2021-2032) & (Cubic Meter)

Figure 22. Producer Shipments of Liquid Helium by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Liquid Helium Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Liquid Helium Markets in 2025

Figure 25. United States VS China: Liquid Helium Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Liquid Helium Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Liquid Helium Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Liquid Helium Production Market Share

2025

Figure 29. China Based Manufacturers Liquid Helium Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Liquid Helium Production Market Share 2025

Figure 31. World Liquid Helium Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Liquid Helium Production Value Market Share by Type in 2025

Figure 33. Grade A Liquid Helium

Figure 34. High Purity Liquid Helium

Figure 35. Ultra High Purity Liquid Helium

Figure 36. Others

Figure 37. World Liquid Helium Production Market Share by Type (2021-2032)

Figure 38. World Liquid Helium Production Value Market Share by Type (2021-2032)

Figure 39. World Liquid Helium Average Price by Type (2021-2032) & (US\$/Cubic Meter)

Figure 40. World Liquid Helium Production Value by Supply Form, (USD Million), 2021 & 2025 & 2032

Figure 41. World Liquid Helium Production Value Market Share by Supply Form in 2025

Figure 42. Bulk Liquid Helium

Figure 43. ISO Container Liquid Helium

Figure 44. Dewar Liquid Helium

Figure 45. Others

Figure 46. World Liquid Helium Production Market Share by Supply Form (2021-2032)

Figure 47. World Liquid Helium Production Value Market Share by Supply Form (2021-2032)

Figure 48. World Liquid Helium Average Price by Supply Form (2021-2032) & (US\$/Cubic Meter)

Figure 49. World Liquid Helium Production Value by Feed Gas Type, (USD Million), 2021 & 2025 & 2032

Figure 50. World Liquid Helium Production Value Market Share by Feed Gas Type in 2025

Figure 51. LNG Associated Natural Gas

Figure 52. Hydrocarbon Natural Gas

Figure 53. Nitrogen Rich Gas

Figure 54. Others

Figure 55. World Liquid Helium Production Market Share by Feed Gas Type (2021-2032)

Figure 56. World Liquid Helium Production Value Market Share by Feed Gas Type (2021-2032)

Figure 57. World Liquid Helium Average Price by Feed Gas Type (2021-2032) & (US\$/Cubic Meter)

Figure 58. World Liquid Helium Production Value by Purity Level, (USD Million), 2021 & 2025 & 2032

Figure 59. World Liquid Helium Production Value Market Share by Purity Level in 2025

Figure 60. 99.997% Liquid Helium

Figure 61. 99.999% Liquid Helium

Figure 62. Above 99.999% Liquid Helium

Figure 63. Others

Figure 64. World Liquid Helium Production Market Share by Purity Level (2021-2032)

Figure 65. World Liquid Helium Production Value Market Share by Purity Level (2021-2032)

Figure 66. World Liquid Helium Average Price by Purity Level (2021-2032) & (US\$/Cubic Meter)

Figure 67. World Liquid Helium Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 68. World Liquid Helium Production Value Market Share by Application in 2025

Figure 69. MRI and Medical Cryogenics

Figure 70. Scientific Research and Quantum Technology

Figure 71. Semiconductor and Advanced Manufacturing

Figure 72. Aerospace and Industrial Cryogenics

Figure 73. World Liquid Helium Production Market Share by Application (2021-2032)

Figure 74. World Liquid Helium Production Value Market Share by Application (2021-2032)

Figure 75. World Liquid Helium Average Price by Application (2021-2032) & (US\$/Cubic Meter)

Figure 76. Liquid Helium Industry Chain

Figure 77. Liquid Helium Procurement Model

Figure 78. Liquid Helium Sales Model

Figure 79. Liquid Helium Sales Channels, Direct Sales, and Distribution

Figure 80. Methodology

Figure 81. Research Process and Data Source

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