

# **South & Central America Liquid Nitrogen Market Forecast to 2031 - Regional Analysis - by Manufacturing Method (Cryogenic Distillation and Pressure Swing Adsorption) and End-use Industry (Aerospace and Defense, Automotive, Chemical, Food and Beverage, Metal Fabrication, Pharmaceutical, Electronics and Semiconductors, and Others)**

<https://marketpublishers.com/r/SC8E54B2F3D0EN.html>

Date: March 2025

Pages: 114

Price: US\$ 3,450.00 (Single User License)

ID: SC8E54B2F3D0EN

## **Abstracts**

The South & Central America liquid nitrogen market was valued at US\$ 627.82 million in 2023 and is expected to reach US\$ 874.89 million by 2031; it is estimated to register a CAGR of 4.2% from 2023 to 2031.

### **Growing Number of Applications in Chemical Industry Fuels South & Central America Liquid Nitrogen Market**

In the chemical industry, liquid nitrogen is often used in manufacturing, processing, handling, storage, and transportation. It is employed as a cryopreservation agent and serves as the raw material for cloning processes. Liquid nitrogen is used as a pressurizing gas, propelling liquids through pipelines. Also, it is used to shield oxygen-sensitive materials from the air as well as to remove volatile organic chemicals from process streams. In chemical analysis, liquid nitrogen is commonly used during sample preparation. It is used for maintaining concentration and reduction of the volume of liquid samples. Liquid nitrogen helps produce fertilizers, dyes, nitric acid, and explosives. Further, specialty chemicals manufacturing companies are expanding their capacities to cater to surging demand from domestic and international markets. Thus, the growing liquid nitrogen usage in chemical applications across various economies is expected to create lucrative opportunities for the liquid nitrogen market growth during

the forecast period.

## South & Central America Liquid Nitrogen Market Overview

The South & Central America liquid nitrogen market growth is attributed to the expansion of the food & beverages industry. Brazil accounts for one of the largest market shares owing to the increased consumption and production of processed foods in the country. According to the Brazilian Food Processors' Association, the food processing sector in the country accounted for a revenue of US\$ 231 billion in 2023. This growing food & beverages industry in the region boosts the demand for liquid nitrogen, which fuels the market growth.

Additionally, the region's steel production is witnessing rapid growth, with countries such as Brazil, Argentina, Chile, Columbia, and Costa Rica contributing to its growth. For instance, according to the World Steel Association AISBL, Brazil is among the world's top 10 steel producing countries. Brazil accounted for 8.3 metric tons of steel production in January-March 2024 with an increase of 6.2% from January-March 2023. This increasing steel production in the region gives rise to the demand for liquid nitrogen in South & Central America over the forecast period.

## South & Central America Liquid Nitrogen Market Revenue and Forecast to 2031 (US\$ Million)

### South & Central America Liquid Nitrogen Market Segmentation

The South & Central America liquid nitrogen market is categorized into manufacturing method, end-use industry, and country.

Based on manufacturing method, the South & Central America liquid nitrogen market is bifurcated into cryogenic distillation and pressure swing adsorption. The cryogenic distillation segment held a larger South & Central America liquid nitrogen market share in 2023.

In terms of end-use industry, the South & Central America liquid nitrogen market is segmented into aerospace and defense, automotive, chemical, food and beverage, metal fabrication, pharmaceutical, electronics and semiconductors, and others. The metal fabrication segment held the largest South & Central America liquid nitrogen market share in 2023.

By country, the South & Central America liquid nitrogen market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the South & Central America liquid nitrogen market share in 2023.

Linde Plc, L'Air Liquide SA, Air Products and Chemicals Inc, SOL SpA, Praxair Technology Inc, Ube Corporation, Air Water Inc, and Matheson Tri-Gas Inc are some of the leading companies operating in the South & Central America liquid nitrogen market.

#### Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the South & Central America liquid nitrogen market.

Highlights key business priorities in order to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in the South & Central America liquid nitrogen market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth South & Central America market trends and outlook coupled with the factors driving the South & Central America liquid nitrogen market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

#### The List of Companies - South & Central America Liquid Nitrogen Market

Linde Plc

L'Air Liquide SA

Air Products and Chemicals Inc

SOL SpA

Praxair Technology Inc

Ube Corporation

Air Water Inc

Matheson Tri-Gas, Inc

## Contents

### **1. INTRODUCTION**

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Key Insights
- 2.2 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Secondary Research
- 3.2 Primary Research
  - 3.2.1 Hypothesis formulation:
  - 3.2.2 Macro-economic factor analysis:
  - 3.2.3 Developing base number:
  - 3.2.4 Data Triangulation:
  - 3.2.5 Country level data:

### **4. SOUTH & CENTRAL AMERICA LIQUID NITROGEN MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 Porters Analysis
  - 4.2.1 Bargaining Power of Suppliers
  - 4.2.2 Bargaining Power of Buyers
  - 4.2.3 Threat of New Entrants
  - 4.2.4 Intensity of Competitive Rivalry
  - 4.2.5 Threat of Substitutes
- 4.3 Ecosystem Analysis
  - 4.3.1 Raw Material Suppliers
  - 4.3.2 Manufacturers
  - 4.3.3 Distributors/Suppliers
  - 4.3.4 End Use

### **5. SOUTH & CENTRAL AMERICA LIQUID NITROGEN MARKET – KEY MARKET DYNAMICS**

## 5.1 Market Drivers

5.1.1 Increasing Use of Liquid Nitrogen in Pharmaceutical Industry

5.1.2 Rising Demand for Liquid Nitrogen in Food & Beverages Industry

## 5.2 Market Restraints

5.2.1 Stringent Regulatory Framework

## 5.3 Market Opportunities

5.3.1 Growing Number of Applications in Chemical Industry

## 5.4 Future Trends

5.4.1 Development of Sustainable and Lab-Friendly Liquid Nitrogen

## 5.5 Impact of Drivers and Restraints:

# **6. LIQUID NITROGEN MARKET – SOUTH & CENTRAL AMERICA MARKET ANALYSIS**

6.1 South & Central America Liquid Nitrogen Market Volume (Kilo Tons), 2021–2031

6.2 South & Central America Liquid Nitrogen Market Volume Forecast and Analysis (Kilo Tons)

6.3 South & Central America Liquid Nitrogen Market Revenue (US\$ Million), 2023–2031

6.4 South & Central America Liquid Nitrogen Market Forecast and Analysis

# **7. SOUTH & CENTRAL AMERICA LIQUID NITROGEN MARKET REVENUE ANALYSIS – BY MANUFACTURING METHOD**

## 7.1 Cryogenic Distillation

7.1.1 Overview

7.1.2 Cryogenic Distillation: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

## 7.2 Pressure Swing Adsorption

7.2.1 Overview

7.2.2 Pressure Swing Adsorption: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

# **8. SOUTH & CENTRAL AMERICA LIQUID NITROGEN MARKET VOLUME AND REVENUE ANALYSIS – BY END-USE INDUSTRY**

## 8.1 Aerospace and Defense

8.1.1 Overview

8.1.2 Aerospace and Defense: Liquid Nitrogen Market – Volume and Forecast to 2031

(Kilo Tons)

8.1.3 Aerospace and Defense: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

8.2 Automotive

8.2.1 Overview

8.2.2 Automotive: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

8.2.3 Automotive: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

8.3 Chemical

8.3.1 Overview

8.3.2 Chemical: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

8.3.3 Chemical: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

8.4 Food and Beverage

8.4.1 Overview

8.4.2 Food and Beverage: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

8.4.3 Food and Beverage: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

8.5 Metal Fabrication

8.5.1 Overview

8.5.2 Metal Fabrication: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

8.5.3 Metal Fabrication: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

8.6 Pharmaceutical

8.6.1 Overview

8.6.2 Pharmaceutical: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

8.6.3 Pharmaceutical: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

8.7 Electronics and Semiconductors

8.7.1 Overview

8.7.2 Electronics and Semiconductors: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

8.7.3 Electronics and Semiconductors: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

8.8 Others

8.8.1 Overview

8.8.2 Others: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

### 8.8.3 Others: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

## **9. SOUTH & CENTRAL AMERICA LIQUID NITROGEN MARKET – COUNTRY ANALYSIS**

### 9.1 South and Central America

#### 9.1.1 South and Central America Liquid Nitrogen Market Breakdown by Key Countries, 2023 and 2031 (%)

##### 9.1.1.1 South and Central America Liquid Nitrogen Market Volume and Forecast and Analysis – by Country

##### 9.1.1.2 South and Central America Liquid Nitrogen Market Revenue and Forecast and Analysis – by Country

##### 9.1.1.3 Brazil Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

###### 9.1.1.3.1 Brazil Liquid Nitrogen Market Breakdown by Manufacturing Method

###### 9.1.1.3.2 Brazil Liquid Nitrogen Market Breakdown by End-use Industry

##### 9.1.1.4 Argentina Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

###### 9.1.1.4.1 Argentina Liquid Nitrogen Market Breakdown by Manufacturing Method

###### 9.1.1.4.2 Argentina Liquid Nitrogen Market Breakdown by End-use Industry

##### 9.1.1.5 Rest of South and Central America Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

###### 9.1.1.5.1 Rest of South and Central America Liquid Nitrogen Market Breakdown by Manufacturing Method

###### 9.1.1.5.2 Rest of South and Central America Liquid Nitrogen Market Breakdown by End-use Industry

## **10. COMPETITIVE LANDSCAPE**

### 10.1 Heat Map Analysis by Key Players

### 10.2 Company Positioning & Concentration

## **11. INDUSTRY LANDSCAPE**

### 11.1 Overview

### 11.2 Partnership

### 11.3 Acquisitions

### 11.4 Expansions And Other Strategic Developments

## **12. COMPANY PROFILES**



## 12.1 Linde Plc

### 12.1.1 Key Facts

### 12.1.2 Business Description

### 12.1.3 Products and Services

### 12.1.4 Financial Overview

### 12.1.5 SWOT Analysis

### 12.1.6 Key Developments

## 12.2 L'Air Liquide SA

### 12.2.1 Key Facts

### 12.2.2 Business Description

### 12.2.3 Products and Services

### 12.2.4 Financial Overview

### 12.2.5 SWOT Analysis

### 12.2.6 Key Developments

## 12.3 Air Products and Chemicals Inc

### 12.3.1 Key Facts

### 12.3.2 Business Description

### 12.3.3 Products and Services

### 12.3.4 Financial Overview

### 12.3.5 SWOT Analysis

### 12.3.6 Key Developments

## 12.4 SOL SpA

### 12.4.1 Key Facts

### 12.4.2 Business Description

### 12.4.3 Products and Services

### 12.4.4 Financial Overview

### 12.4.5 SWOT Analysis

### 12.4.6 Key Developments

## 12.5 Praxair Technology Inc

### 12.5.1 Key Facts

### 12.5.2 Business Description

### 12.5.3 Products and Services

### 12.5.4 Financial Overview

### 12.5.5 SWOT Analysis

### 12.5.6 Key Developments

## 12.6 Ube Corporation

### 12.6.1 Key Facts

### 12.6.2 Business Description

- 12.6.3 Products and Services
- 12.6.4 Financial Overview
- 12.6.5 SWOT Analysis
- 12.6.6 Key Developments
- 12.7 Air Water Inc
  - 12.7.1 Key Facts
  - 12.7.2 Business Description
  - 12.7.3 Products and Services
  - 12.7.4 Financial Overview
  - 12.7.5 SWOT Analysis
  - 12.7.6 Key Developments
- 12.8 Matheson Tri-Gas, Inc
  - 12.8.1 Key Facts
  - 12.8.2 Business Description
  - 12.8.3 Products and Services
  - 12.8.4 Financial Overview
  - 12.8.5 SWOT Analysis
  - 12.8.6 Key Developments

## **13. APPENDIX**

- 13.1 About The Insight Partners

## List Of Tables

### LIST OF TABLES

Table 1. South & Central America Liquid Nitrogen Market Segmentation

Table 2. South & Central America Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

Table 3. South & Central America Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

Table 4. South & Central America Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million) – by Manufacturing Method

Table 5. South & Central America Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons) – by End-use Industry

Table 6. South & Central America Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million) – by End-use Industry

Table 7. South and Central America Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons) – by Country

Table 8. South and Central America Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million) – by Country

Table 9. Brazil Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million) – by Manufacturing Method

Table 10. Brazil Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons) – by End-use Industry

Table 11. Brazil Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million) – by End-use Industry

Table 12. Argentina Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million) – by Manufacturing Method

Table 13. Argentina Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons) – by End-use Industry

Table 14. Argentina Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million) – by End-use Industry

Table 15. Rest of South and Central America Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million) – by Manufacturing Method

Table 16. Rest of South and Central America Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons) – by End-use Industry

Table 17. Rest of South and Central America Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million) – by End-use Industry

Table 18. Heat Map Analysis by Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1. South & Central America Liquid Nitrogen Market Segmentation, by Country

Figure 2. Porters Analysis

Figure 3. Ecosystem: South & Central America Liquid Nitrogen Market

Figure 4. South & Central America Liquid Nitrogen Market – Key Market Dynamics

Figure 5. Impact Analysis of Drivers and Restraints

Figure 6. South & Central America Liquid Nitrogen Market Volume (Kilo Tons),  
2021–2031

Figure 7. South & Central America Liquid Nitrogen Market Revenue (US\$ Million),  
2023–2031

Figure 8. South & Central America Liquid Nitrogen Market Share (%) – Manufacturing  
Method, 2023 and 2031

Figure 9. Cryogenic Distillation: Liquid Nitrogen Market – Revenue and Forecast to 2031  
(US\$ Million)

Figure 10. Pressure Swing Adsorption: Liquid Nitrogen Market – Revenue and Forecast  
to 2031 (US\$ Million)

Figure 11. South & Central America Liquid Nitrogen Market Share (%) – End-use  
Industry, 2023 and 2031

Figure 12. Aerospace and Defense: Liquid Nitrogen Market – Volume and Forecast to  
2031 (Kilo Tons)

Figure 13. Aerospace and Defense: Liquid Nitrogen Market – Revenue and Forecast to  
2031 (US\$ Million)

Figure 14. Automotive: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo  
Tons)

Figure 15. Automotive: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$  
Million)

Figure 16. Chemical: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

Figure 17. Chemical: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$  
Million)

Figure 18. Food and Beverage: Liquid Nitrogen Market – Volume and Forecast to 2031  
(Kilo Tons)

Figure 19. Food and Beverage: Liquid Nitrogen Market – Revenue and Forecast to  
2031 (US\$ Million)

Figure 20. Metal Fabrication: Liquid Nitrogen Market – Volume and Forecast to 2031  
(Kilo Tons)

Figure 21. Metal Fabrication: Liquid Nitrogen Market – Revenue and Forecast to 2031

(US\$ Million)

Figure 22. Pharmaceutical: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

Figure 23. Pharmaceutical: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 24. Electronics and Semiconductors: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

Figure 25. Electronics and Semiconductors: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 26. Others: Liquid Nitrogen Market – Volume and Forecast to 2031 (Kilo Tons)

Figure 27. Others: Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 28. South and Central America Liquid Nitrogen Market Revenue, by Key Countries, (2023) (US\$ Mn)

Figure 29. South and Central America Liquid Nitrogen Market Breakdown by Key Countries, 2023 and 2031 (%)

Figure 30. Brazil Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 31. Argentina Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 32. Rest of South and Central America Liquid Nitrogen Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 33. Company Positioning & Concentration

## I would like to order

Product name: South & Central America Liquid Nitrogen Market Forecast to 2031 - Regional Analysis - by Manufacturing Method (Cryogenic Distillation and Pressure Swing Adsorption) and End-use Industry (Aerospace and Defense, Automotive, Chemical, Food and Beverage, Metal Fabrication, Pharmaceutical, Electronics and Semiconductors, and Others)

Product link: <https://marketpublishers.com/r/SC8E54B2F3D0EN.html>

Price: US\$ 3,450.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SC8E54B2F3D0EN.html>