

# **Middle East & Africa 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)**

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## **Abstracts**

The Middle East & Africa liquid nitrogen market was valued at US\$ 1,404.90 million in 2023 and is expected to reach US\$ 1,985.71 million by 2031; it is estimated to register a CAGR of 4.4% from 2023 to 2031.

### **Development of Sustainable and Lab-Friendly Liquid Nitrogen Bolsters Middle East & Africa Liquid Nitrogen Market**

Traditionally, liquid nitrogen is obtained from cryogenic separation and pressure swing adsorption process in which the nitrogen gets separated from atmospheric air and then processed into a liquid format. However, the process emits greenhouse gas emissions, increasing the environmental concern among manufacturers. Thus, manufacturers are now developing environment-friendly production processes to limit the impact on the environment. For instance, these processes include the use of biomass that has been gasified with nitrogen. This technique produces liquid nitrogen by mixing hydrogen gas and carbon dioxide gas into a gaseous state. This trend of advanced development of liquid nitrogen offers high efficiency of industrial processes for producing liquid nitrogen; the process is also eco-friendly and user-friendly. It does not cause greenhouse gas emissions, making this process a popular option among manufacturers. ECHEMI GLOBAL CO is a leading chemical manufacturer and offers sustainable and lab-friendly

liquid nitrogen. Thus, the development of sustainable and lab-friendly liquid nitrogen is expected to bolster market growth in the coming years.

### Middle East & Africa Liquid Nitrogen Market Overview

The liquid nitrogen market in the Middle East & Africa is driven by the growing food & beverages industry, with the UAE being the largest contributor to the industry's growth. According to the US Department of Agriculture, UAE hosts over 2,000 food and beverage manufacturing companies, generating a turnover of US\$ 7.63 billion annually as of 2023. In addition, the region is experiencing significant growth in the automotive industry. According to the International Trade Association, the automotive sector in the Middle East & Africa grew at a CAGR of ~36% as of 2022, with Saudi Arabia being the largest contributor to the market. The automotive sales in Saudi Arabia are expected to reach 543,000 units by 2025. Liquid nitrogen has various applications in the automotive industry; it temporarily shrinks metal components such as axels, gears, and engine parts to fit them into another component. Thus, the growing automotive industry drives the demand for liquid nitrogen in the Middle East & Africa.

### Middle East & Africa Liquid Nitrogen Market Revenue and Forecast to 2031 (US\$ Million)

### Middle East & Africa Liquid Nitrogen Market Segmentation

The Middle East & Africa liquid nitrogen market is categorized into manufacturing method, end-use industry, and country.

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

In terms of end-use industry, the Middle East & Africa 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 Middle East & Africa liquid nitrogen market share in 2023.

By country, the Middle East & Africa liquid nitrogen market is segmented into South Africa, the UAE, Saudi Arabia, and the Rest of Middle East & Africa. The Rest of Middle

East & Africa dominated the Middle East & Africa liquid nitrogen market share in 2023.

Linde Plc, L’Air Liquide SA, Air Products and Chemicals Inc, SOL SpA, Ube Corporation, Air Water Inc, Gulf Cryo LLC, ADNOC Gas, and Matheson Tri-Gas Inc are some of the leading companies operating in the Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa 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 Middle East & Africa market trends and outlook coupled with the factors driving the Middle East & Africa 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 - Middle East & Africa Liquid Nitrogen Market

Linde Plc

L’Air Liquide SA

Air Products and Chemicals Inc

SOL SpA

Ube Corporation

Air Water Inc

Gulf Cryo LLC

ADNOC Gas

Matheson Tri-Gas, Inc

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