

Global Liquid Carbon Dioxide Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/L252507075FCEN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: L252507075FCEN

Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Liquid Carbon Dioxide market size will reach Million USD in 2025 and is projected to reach Million USD by 2032, with a CAGR of % (2025-2032). Notably, the China Liquid Carbon Dioxide market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Liquid carbon dioxide (CO₂) is the condensed form of carbon dioxide gas, achieved by subjecting CO₂ to low temperatures and high pressure. At standard atmospheric pressure, carbon dioxide exists as a gas. However, when cooled below -78.5°C (-109.3°F) and maintained at pressures above 5.1 atmospheres, it transitions into a liquid state. Liquid CO₂ is colorless, odorless, and non-flammable, making it versatile for various industrial applications. It is commonly used as a refrigerant in cryogenic systems, such as for preserving food or in medical applications. Additionally, liquid CO₂ finds use in chemical processing, pharmaceutical manufacturing, and as a solvent in extraction processes. Its ability to transition between gas and liquid states makes it valuable for applications ranging from industrial processes to environmental and medical uses.

The major global manufacturers of Liquid Carbon Dioxide include Linde, Air Products and Chemicals, Continental Carbonic Products, Matheson Tri-Gas, India Glycols, SOL Group, Taiyo Nippon Sanso, Hunan Kaimeite Gases, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises

global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Liquid Carbon Dioxide. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Liquid Carbon Dioxide market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Liquid Carbon Dioxide market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Liquid Carbon Dioxide industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Liquid Carbon Dioxide Include:

Linde

Air Products and Chemicals

Continental Carbonic Products

Matheson Tri-Gas

India Glycols

SOL Group

Taiyo Nippon Sanso

Hunan Kaimeite Gases

Liquid Carbon Dioxide Product Segment Include:

Medical Grade Carbon Dioxide

Industrial Grade Carbon Dioxide

Food Grade Carbon Dioxide

Liquid Carbon Dioxide Product Application Include:

Metals Industry

Chemicals and Petroleum Industries

Rubber and Plastics Industries

Food and Beverages Industries

Pharmaceuticals Industry

Environmental Uses

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