

Global Liquefied Carbon Dioxide Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Liquefied 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 Liquefied 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

Liquefied Carbon Dioxide (CO₂) is the liquid state of carbon dioxide gas, achieved by compressing and cooling it below its critical temperature of 31.1 degrees Celsius (or 304.25 Kelvin) at atmospheric pressure. It is commonly abbreviated as LCO₂. LCO₂ is a colorless, odorless, and non-flammable substance. It is widely used in various industrial, commercial, and scientific applications. Here are some of its major applications:

- 1. Food and Beverage Industry:** LCO₂ is commonly used as a cooling agent and cryogenic freezing agent in the food and beverage industry. It helps in maintaining low temperatures for food storage, transportation, and processing. It is used in freezing meats, vegetables, ice cream, and other perishable food items.
- 2. Chemical and Pharmaceutical Industries:** LCO₂ is utilized as a solvent and an extraction agent in chemical and pharmaceutical processes. It is used to extract essential oils, flavors, and fragrances from plants. It also serves as a cleaning and degreasing agent for industrial equipment.
- 3. Fire Suppression Systems:** LCO₂ is employed in fire suppression systems where it is

stored under pressure and released as a gas when a fire is detected. The released CO₂ displaces oxygen, effectively suppressing the fire by reducing the oxygen concentration.

4. **Welding and Metal Fabrication:** LCO₂ is used as a shielding gas in various welding processes, such as MIG (Metal Inert Gas) and TIG (Tungsten Inert Gas) welding. It helps protect the welding area from atmospheric contamination and oxidation.

5. **Carbonation:** LCO₂ is a crucial component in carbonated beverages, providing the characteristic bubbles and fizz. It is added under pressure to water or other beverages to dissolve carbon dioxide and create carbonation.

6. **Environmental Applications:** LCO₂ finds applications in environmental protection and sustainability efforts. It is used for carbon capture and storage (CCS) to reduce greenhouse gas emissions from power plants and industrial facilities. It is also employed in enhanced oil recovery (EOR) techniques to extract additional oil from reservoirs.

7. **Cleaning and Dry Cleaning:** LCO₂ is used as an alternative solvent in the cleaning and dry-cleaning industry. It offers an environmentally friendly option compared to traditional solvents, as it has a lower impact on air quality and is non-toxic.

The major global manufacturers of Liquefied Carbon Dioxide include BOConline, Kanoria Chemicals, Air Products and Chemicals, Zakady Azotowe Puawy, Continental Carbonic, 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 Liquefied 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 Liquefied 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 Liquefied 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 Liquefied 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 Liquefied Carbon Dioxide Include:

BOCOnline

Kanoria Chemicals

Air Products and Chemicals

Zak?ady Azotowe Pu?awy

Continental Carbonic

Liquefied Carbon Dioxide Product Segment Include:

Food Grade Carbon Dioxide

Industrial Grade Carbon Dioxide

Liquefied Carbon Dioxide Product Application Include:

Food and Beverages

Chemicals

Electronics

Agriculture

Healthcare

Others

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