

Global Liquid Carbon Dioxide (CO₂) Market Analysis: Plant Capacity, Production, Operating Efficiency, Demand & Supply, End-Use, Foreign Trade, Sales Channel, Regional Demand, Company Share, 2015-2035

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Abstracts

The global Liquid Carbon Dioxide (CO₂) market stood at approximately 8 million tonnes in 2021 and is expected to grow at a CAGR of 5.28% during the forecast period until 2035. The growing demand for food and beverages is anticipated to fuel the Liquid Carbon Dioxide market.

Liquid CO₂ is primarily used in the food and beverage industry for carbonated soft drinks and alcoholic beverages like beer, and water. It serves as a preservative in food packaging as well. Carbonating soft drinks, water, and alcoholic beverages like beer is the primary usage of CO₂. Liquid CO₂ is frequently used in breweries to supplement the CO₂ created during fermentation. The CO₂ extends shelf life of baby food, meats, fresh foods, and baked goods.

Additionally, CO₂ is employed in the form of dry ice and snow to convey fresh food. In the medical field, carbon dioxide is used as a blowing gas for various procedures, including minimally invasive surgery. In treating water, the chemical is mostly used as an acidifier.

As the global consumption of carbonated beverages rises, the food and beverage sectors will continue to be the largest end-use market for liquid CO₂. Owing to the rising population, the food and beverage sector is anticipated to dominate the market in the forthcoming years. Furthermore, its application in the healthcare industry is another factor driving the market. Moreover, CO₂-derived fuels have uses in the transportation

industry but others, like methane, have several uses in industrial, heating, and power generation, which is expected to swell up the demand in the forecast period. The global Liquid Carbon Dioxide market is anticipated to reach approximately 16 million tonnes by 2035.

Asia Pacific is dominating all over the world with the highest demand for Liquid Carbon Dioxide. This region accounted for a market share of about 50% of the global Liquid Carbon Dioxide market in 2021. Owing to the rising demand of food and beverages along with water treatment, the demand for Liquid Carbon Dioxide is anticipated to rise in these countries. Europe stands as the second largest consumer of Liquid Carbon Dioxide. Germany, the United Kingdom, and Norway are leading European nations in liquefying and purifying CO₂ to be used for food processing and beverage carbonation. Geographically, APAC produces the most CO₂, with India, China, Indonesia, and Thailand being the top producers of liquid CO₂.

Based on the end-user industry, the Liquid Carbon Dioxide market is segmented into sectors such as Chemicals & Petrochemicals, Food & Beverages, Healthcare, Fire Extinguisher, and Others. Among these, the food and beverage sector is in the lead, with a volume share of over 30% in 2021. Chemicals & Petrochemicals and Healthcare also hold recognizable market shares in the Liquid Carbon Dioxide market.

Significant players in the Global Liquid Carbon Dioxide market are Punjab Carbonic private Limited, SICGIL India Limited, India Glycols Limited, Prime Gases, Jubilant Lifesciences limited, Indo Gulf Corporation, Hangzhou Oxygen Co. Ltd., Messer Group GmbH, Linde Plc, Bangkok Industrial Gas Company Limited (BIG), Messer - AlcoBioFuel Bio-Refinery - IJsfabriek Strombeek JV, Air Products (ACP Belgium), CropEnergies - Tyczka Energie JV, CF Fertilisers UK Ltd, and Linde Gáz Magyarországon Zrt.

Years considered for this report:

Historical Period: 2015- 2021

Base Year: 2021

Estimated Year: 2022

Forecast Period: 2023-2035

The objective of the Study:

To assess the demand-supply scenario of Liquid Carbon Dioxide, which covers the production, demand, and supply of Liquid Carbon Dioxide around the globe.

To analyze and forecast the market size of Liquid Carbon Dioxide.

To classify and forecast the Global Liquid Carbon Dioxide market based on end-use and regional distribution.

To examine global competitive developments such as new capacity expansions, mergers & acquisitions, etc., of the Liquid Carbon Dioxide market.

To extract data for the Global Liquid Carbon Dioxide market, primary research surveys were conducted with Liquid Carbon Dioxide manufacturers, suppliers, distributors, wholesalers, and Traders. While interviewing, the respondents were also inquired about their competitors. Through this technique, ChemAnalyst was able to include manufacturers that could not be identified due to the limitations of secondary research. Moreover, ChemAnalyst analyzed various segments and projected a positive outlook for the Global Liquid Carbon Dioxide market over the coming years.

ChemAnalyst calculated Liquid Carbon Dioxide demand in the globe by analyzing the historical data and demand forecast which was carried out considering the historical extraction and supply and demand of Liquid Carbon Dioxide across the globe. ChemAnalyst sourced these values from industry experts, and company representatives and externally validated through analyzing historical sales data of respective manufacturers to arrive at the overall market size. Various secondary sources such as company websites, association reports, annual reports, etc., were also studied by ChemAnalyst.

Key Target Audience:

Liquid Carbon Dioxide manufacturers and other stakeholders

Organizations, forums and alliances related to Liquid Carbon Dioxide distribution

Government bodies such as regulating authorities and policy makers

Market research organizations and consulting companies

The study is useful in providing answers to several critical questions that are important for industry stakeholders such as Liquid Carbon Dioxide manufacturers, customers and policy makers. The study would also help them to target the growing segments over the coming years, thereby aiding the stakeholders in taking investment decisions and facilitating their expansion.

Report Scope:

In this report, Global Liquid Carbon Dioxide market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Market, by End-use: Chemicals & Petrochemicals, Food & Beverages, Healthcare, Fire Extinguisher, and Others

Market, by Sales Channel: Direct Sale and Indirect Sale

Market, by Region: North America, Europe, Asia Pacific, Middle East and Africa, and South America.

Available Customizations:

With the given market data, ChemAnalyst offers customizations according to a company's specific needs.

Contents

1. CAPACITY BY COMPANY

On our online platform, you can stay up to date with essential manufacturers and their current and future operation capacity on a practically real-time basis for Liquid Carbon Dioxide.

2. CAPACITY BY LOCATION

To better understand the regional supply of Liquid Carbon Dioxide by analyzing its manufacturers' location-based capacity.

3. PRODUCTION BY COMPANY

Study the historical annual production of Liquid Carbon Dioxide by the leading players and forecast how it will grow in the coming years.

4. DEMAND BY END- USE

Discover which end-user industry (Chemicals & Petrochemicals, Food & Beverages, Healthcare, Fire Extinguisher, and Others) are creating a market and the forecast for the growth of the Liquid Carbon Dioxide market.

5. DEMAND BY REGION

Analyzing the change in demand of Liquid Carbon Dioxide in different regions, i.e., North America, Europe, Asia Pacific, Middle East and Africa, and South America, that can direct you in mapping the regional demand.

6. DEMAND BY SALES CHANNEL (DIRECT AND INDIRECT)

Multiple channels are used to sell Liquid Carbon Dioxide. Our sales channel will help in analyzing whether distributors and dealers or direct sales make up most of the industry's sales.

7. DEMAND-SUPPLY GAP

Determine the supply-demand gap to gain information about the trade surplus or

deficiency of Liquid Carbon Dioxide.

8. COMPANY SHARE

Figure out what proportion of the market share of Liquid Carbon Dioxide is currently held by leading players across the globe.

9. COUNTRY-WISE EXPORT

Get details about quantity of Liquid Carbon Dioxide exported by major countries.

10. COUNTRY-WISE IMPORT

Get details about quantity of Liquid Carbon Dioxide imported by major countries.

11. PRICING ANALYSIS & FORECAST

Analyze historical prices since 2015 & Forecast on three months rolling period for next 12 months.

Years considered for this report:

Historical Period: 2015- 2022

Base Year: 2022

Estimated Year: 2023

Forecast Period: 2024-2032

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