

# Global Liquid Carbon Dioxide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Liquid Carbon Dioxide market size was valued at US\$ 6729 million in 2025 and is forecast to a readjusted size of US\$ 10942 million by 2032 with a CAGR of 7.2% during review period.

Liquid carbon dioxide refers to carbon dioxide that has been liquefied under pressurized conditions, often with low-temperature storage, forming a cryogenic, high-pressure industrial gas supply format. Its core value lies in enabling high-density storage and transportation in a relatively small volume while providing stable, continuous supply, and meeting impurity and safety requirements across food and industrial applications through different purity grades. From the supply side, the industry typically uses recovered or by-product CO<sub>2</sub> as feed gas, then conducts dehydration, contaminant removal, and deep purification before liquefaction and storage. The product is delivered to customer sites via tankers or micro-bulk vessels, where on-site cryogenic storage tanks and vaporizers convert liquid to gas on demand and maintain the required pressure and flow. This supports multiple supply modes ranging from small cylinder supply to micro-bulk systems and large-scale bulk delivery. From a functional perspective, liquid CO<sub>2</sub> can be used as an inert, non-flammable shielding gas in welding and metal fabrication; for purging and inerting in chemical and pharmaceutical processes; for beverage carbonation, preservation and modified-atmosphere packaging, and cooling or refrigerated transport in food and beverage; and for pH adjustment and neutralization in water treatment and environmental applications. Commercially, suppliers typically sell liquid CO<sub>2</sub> on a per-ton basis and layer in tank rental, on-site system engineering, operations and maintenance, and safety services, combining gas sales with on-site supply solutions. Key competitive factors include the stability of CO<sub>2</sub> feedstock sources, purification and impurity-control capabilities,

distribution radius and cold-chain logistics management, as well as supply reliability and compliance assurance that support customers' continuous operations. In certain applications, liquid CO<sub>2</sub> may also serve as a working medium for R744-related refrigeration systems or as a source of cryogenic cooling capacity, and can support firefighting and low-temperature laboratory preservation uses. It may also be used in specific semiconductor manufacturing processes such as silicon dioxide chemical vapor deposition.

The demand for liquid carbon dioxide is structurally supported by both food and beverage and industrial manufacturing end markets, with the food grade segment providing a relatively rigid base. In beverage carbonation and filling, food grade CO<sub>2</sub> is difficult to substitute, and its use further extends into food processing for chilling and freezing, modified atmosphere packaging, and cold chain transportation, which helps keep demand resilient even amid macro fluctuations. Industrial demand is more closely tied to operating rates and production cadence, covering shielding gas for welding and metal fabrication as well as inerting and purging in chemical and pharmaceutical processes, so changes in orders and utilization tend to translate more directly into volume and delivery frequency. Many customers exhibit a mix of continuous base load and intermittent peak consumption, and liquid supply is better suited for mid to large users because it offers higher storage density and more stable delivery, thereby accelerating penetration of bulk and micro bulk supply models at plant sites.

The core advantage of liquid carbon dioxide is not only its high density for storage and transportation, but also the continuity and controllability enabled by on site cryogenic storage tanks and vaporization systems. Suppliers deliver via tankers or micro bulk vessels and maintain the required pressure and flow at the customer site, allowing customers to reduce cylinder changeovers, avoid unplanned downtime, lower logistics management burden, and improve operational safety and predictability. As customers place higher priority on continuous operations and risk control, suppliers increasingly bundle gas sales with tank rental, on site system engineering, operations and maintenance, and safety documentation and emergency management, pushing the business model toward integrated supply solutions. As a result, competitive differentiation is shifting away from unit price alone toward feedstock stability, purification and impurity control capability, distribution radius and cold chain logistics management, and on site compliance and reliability that underpin long term contracts and customer stickiness. Beyond traditional food and beverage and manufacturing applications, growth is expected to come from expanded low temperature use cases and the broader momentum behind natural refrigerants. Liquid carbon dioxide supports a range of low temperature functions such as tissue conservation, deep freezing, and

fire extinction, and it can also link with dry ice related applications, which strengthens demand in cold chain and process temperature control. Meanwhile, regulatory and industry trends are accelerating the transition away from high GWP fluorinated refrigerants and encouraging natural refrigerant pathways, and the expansion of the R744 ecosystem is likely to drive incremental demand and supply side capacity build out over the medium to long term. On the production side, supply footprints tend to be located near accessible CO<sub>2</sub> sources and major demand centers; leading industrial gas companies operate multiple production sites in China and offer portfolios spanning industrial to food grade and even electronic grade. On the sales side, demand is typically concentrated in beverage and food processing clusters and manufacturing hubs, where bulk tanker delivery and on site storage tend to be more efficient for industrial parks and large users.

This report is a detailed and comprehensive analysis for global Liquid Carbon Dioxide market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Liquid Carbon Dioxide market size and forecasts, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Liquid Carbon Dioxide market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Liquid Carbon Dioxide market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Liquid Carbon Dioxide market shares of main players, shipments in revenue (\$ Million), sales quantity (K MT), and ASP (USD/MT), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Liquid Carbon Dioxide

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Liquid Carbon Dioxide market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Linde, Air Liquide, Air Products, Messer Group, SIAD, SOL Group, Coregas, Gulf Cryo, Iwatani, India Glycols, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Liquid Carbon Dioxide market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Medical Grade Carbon Dioxide

Industrial Grade Carbon Dioxide

Food Grade Carbon Dioxide

### Market segment by CO2 Feedstock Source Type

Natural Sources

Fermentation By-product

Chemical & Petrochemical By-product

### Market segment by Supply Mode

Cylinders & Bundles

Micro-bulk

Bulk Tanker Delivery & On-site Storage Tank

#### Market segment by Application

Metals Industry

Chemicals and Petroleum Industries

Rubber and Plastics Industries

Food and Beverages Industries

Pharmaceuticals Industry

Environmental Uses

#### Major players covered

Linde

Air Liquide

Air Products

Messer Group

SIAD

SOL Group

Coregas

Gulf Cryo

Iwatani

India Glycols

Continental Carbonic Products

Matheson Tri-Gas

Hunan Kaimeite Gases

Taiyo Nippon Sanso

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Liquid Carbon Dioxide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Liquid Carbon Dioxide, with price, sales quantity, revenue, and global market share of Liquid Carbon Dioxide from 2021 to 2026.

Chapter 3, the Liquid Carbon Dioxide competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Liquid Carbon Dioxide breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Liquid Carbon Dioxide market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Liquid Carbon Dioxide.

Chapter 14 and 15, to describe Liquid Carbon Dioxide sales channel, distributors, customers, research findings and conclusion.

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