

Global Carbon Dioxide (CO₂) Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Carbon Dioxide (CO₂) market size will reach 7,455 Million USD in 2025 and is projected to reach 11,562.15 Million USD by 2032, with a CAGR of 6.47% (2025-2032). Notably, the China Carbon Dioxide (CO₂) 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

Carbon dioxide (CO₂) is a colorless, odorless gas composed of one carbon atom bonded with two oxygen atoms. It is a naturally occurring component of Earth's atmosphere, accounting for a small fraction of the air we breathe. CO₂ is a crucial part of the carbon cycle, playing a vital role in the process of photosynthesis and the regulation of Earth's climate. It is released into the atmosphere through natural processes like respiration, volcanic activity, and decay of organic matter, as well as human activities such as burning fossil fuels and deforestation. Carbon dioxide is considered a greenhouse gas, which means it has the ability to trap heat in the atmosphere and contribute to the greenhouse effect. Excessive accumulation of CO₂ in the atmosphere, primarily due to human activities, is a significant driver of global climate change and global warming. Efforts to mitigate CO₂ emissions and reduce its impact on the environment are critical in addressing climate change and promoting sustainability.

The major global manufacturers of Carbon Dioxide (CO₂) include Linde, Air Liquid, Air Products and Chemicals, Taiyo Nippon Sanso, Messer Group, India Glycols, SOL

Group, Air Water, Hunan Kaimeite Gases, Gulf Cryo, Yulong gas, Jinhong Gas Shares, Jiangsu Huayang liquid carbon, Gabardine gas, Yankuang Guohong Chemical Co, Shandong Yingxuan Industry, Dehua chemicals, Cryogenic energy, Dongguang chemical, Jilin Baicheng gas, Ke Yi Gas Shares, Union chemical industry, HaoYuan chemical, Nanjing Oil Refinery, 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 Carbon Dioxide (CO₂). 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 Carbon Dioxide (CO₂) 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 Carbon Dioxide (CO₂) 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 Carbon Dioxide (CO₂) 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 Carbon Dioxide (CO₂) Include:

Linde

Air Liquid

Air Products and Chemicals

Taiyo Nippon Sanso

Messer Group

India Glycols

SOL Group

Air Water

Hunan Kaimeite Gases

Gulf Cryo

Yulong gas

Jinhong Gas Shares

Jiangsu Huayang liquid carbon

Gabardine gas

Yankuang Guohong Chemical Co

Shandong Yingxuan Industry

Dehua chemicals

Cryogenic energy

Dongguang chemical

Jilin Baicheng gas

Ke Yi Gas Shares

Union chemical industry

HaoYuan chemical

Nanjing Oil Refinery

Carbon Dioxide (CO₂) Product Segment Include:

Below 3N

3N-4N

Above 4N

Carbon Dioxide (CO₂) Product Application Include:

Food and Beverages

Chemical

Medical

Metal

Frozen and Refrigerated

Others

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