

# Global Carbon Dioxide Capture Agents 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 Carbon Dioxide Capture Agents market size was valued at US\$ 254 million in 2025 and is forecast to a readjusted size of US\$ 536 million by 2032 with a CAGR of 9.8% during review period.

Carbon dioxide capture agents refer to substances that, through physical or chemical actions, adsorb or absorb carbon dioxide from gas mixtures under specific temperatures and pressures and can release the carbon dioxide when conditions change for recycling. These include chemical absorbents (currently mainstream): such as alkanolamines (MEA, MDEA, PZ, etc.), amino acid salts, ionic liquids. Physical adsorbents: such as activated carbon, zeolite molecular sieves, metal-organic frameworks. New capture agents: phase change absorbents (reducing regeneration energy consumption), new solid amine materials. Upstream raw materials include ethylene oxide, liquid ammonia, alcohols (methanol/ethanol), natural gas, etc. Downstream applications include traditional high-carbon industries: coal-fired power plants, steel mills, cement plants, chemical enterprises. As well as emerging fields: blue hydrogen production, direct air capture (DAC). The global market average price is \$2,150 per ton, with sales of 115,000 tons and global capacity of 130,000 tons. The industry profit margin is 11%.

Carbon dioxide capture agents, as the core chemical materials of carbon capture, utilization and storage (CCUS) technology, are undergoing a critical technological iteration from experimental application to large-scale commercialization. The current trend is highly focused on reducing regeneration energy consumption and enhancing chemical stability. The research and development focus has shifted from traditional monoethanolamine to phase change absorbents and non-aqueous solvents that can

reduce energy consumption by more than 30%. Meanwhile, with the rise of direct air capture (DAC) technology, solid adsorbents such as metal-organic frameworks (MOFs) with ultra-high specific surface area are becoming a highly promising technological high ground. Additionally, to meet the modular requirements of industrial decarbonization, future capture agents will evolve towards low corrosion, long life, and biocatalytic directions, aiming to compress the comprehensive cost of capturing each ton of carbon dioxide to below the commercial break-even point of \$30. In terms of market drivers, the increasingly strict global carbon pricing mechanisms and policy subsidies form the underlying driving force for industry growth. As carbon trading prices continue to rise in major economies and policies such as the US 45Q tax credit are implemented, capturing carbon dioxide is transforming from a mere compliance cost to an investment with economic returns. This transformation is particularly significant in industries such as steel, cement, and chemicals that are difficult to decarbonize through electrification, and is further driven by the large-scale development of the blue hydrogen industry chain, directly giving rise to a rigid demand for high-performance capture agents. With global chemical giants accelerating capacity transformation and patent layout, the capture agent industry has entered a period of explosive growth driven by infrastructure improvement and scale effects, and is expected to maintain a double-digit growth rate after 2026, becoming a key incremental market in the global energy transition.

This report is a detailed and comprehensive analysis for global Carbon Dioxide Capture Agents 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 Carbon Dioxide Capture Agents market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Carbon Dioxide Capture Agents market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Carbon Dioxide Capture Agents market size and forecasts, by Type and by

Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Carbon Dioxide Capture Agents market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 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 Carbon Dioxide Capture Agents

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 Carbon Dioxide Capture Agents 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 BASF SE, Dow Inc., Mitsubishi Heavy Industries, Shell Catalysts & Technologies, Wanhua Chemical, Aker Carbon Capture, Honeywell UOP, Linde Engineering, Air Liquide, Carbon Clean, etc.

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

## Market Segmentation

Carbon Dioxide Capture Agents 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

Chemical Absorbent

Physical Absorbent

Physical & Chemical Adsorbent

#### Market segment by Material Form

Liquid Capture Agent

Solid Capture Agent

New Type of Phase Change & Ion Liquid

#### Market segment by Carbon Source Concentration

High-Concentration Collector CO<sub>2</sub> > 15%

Low-Concentration Collector CO<sub>2</sub> 3% - 15%

Ultra-Low Concentration Collector(Air capture)

#### Market segment by Application

Hard to Reduce Heavy Industry

Energy Production and Conversion

Resource Utilization and Productization

Environmental Governance and Cutting-edge Technologies

#### Major players covered

BASF SE

Dow Inc.

Mitsubishi Heavy Industries

Shell Catalysts & Technologies

Wanhua Chemical

Aker Carbon Capture

Honeywell UOP

Linde Engineering

Air Liquide

Carbon Clean

Climeworks

Svante Inc.

Norit

CO2 CAP&CONV

DERUNCHEN

Beijing Carbon Cycle Technology

Cleanco2

Hengchang Chemical

Haipu

Shanghai Yuanlin

Market segment by region, regional analysis covers

*Global Carbon Dioxide Capture Agents Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...*

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 Carbon Dioxide Capture Agents product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Carbon Dioxide Capture Agents 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 Carbon Dioxide Capture Agents 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 Carbon Dioxide Capture Agents.

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

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