

Global Carbon Capture Solvent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Capture Solvent market size is expected to reach \$ 3043 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

In 2025, global Carbon Capture Solvent production reached approximately 642.86 k tons, with an average global market price of around US\$2,800 per ton.

The gross profit margin of major companies in the industry is between 25%-42%.

In 2025, the global production capacity of Carbon Capture Solvent was approximately 857.14 k tons.

Carbon Capture Solvent is a chemical absorbent used to capture carbon dioxide from flue gas, process gas, natural gas, or industrial emissions. It may include amine-based, carbonate-based, blended, or advanced low-energy formulations designed to improve absorption capacity, regeneration efficiency, degradation resistance, corrosion control, and operating stability in carbon capture systems.

The industrial chain of Carbon Capture Solvent covers upstream amines, alcohols, catalysts, stabilizers, corrosion inhibitors, solvents, blending additives, storage tanks, and testing materials. The midstream consists of formulation development, blending, purification, quality testing, packaging, performance validation, and technical service. Downstream applications mainly include power plants, cement, steel, chemicals, refineries, natural gas processing, hydrogen production, and industrial carbon capture projects.

This report studies the global Carbon Capture Solvent production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Capture Solvent and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Capture Solvent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Capture Solvent total production and demand, 2021-2032, (Kilotons)

Global Carbon Capture Solvent total production value, 2021-2032, (USD Million)

Global Carbon Capture Solvent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Carbon Capture Solvent consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Carbon Capture Solvent domestic production, consumption, key domestic manufacturers and share

Global Carbon Capture Solvent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Carbon Capture Solvent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Carbon Capture Solvent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Carbon Capture Solvent market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, Shell, Dow, Carbon Clean, Fluor Corporation, Mitsubishi Heavy Industries, Aker Solutions, Linde, Honeywell UOP, ExxonMobil, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Capture Solvent market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Capture Solvent Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Capture Solvent Market, Segmentation by Type:

Amine-Based Solvent

Amino Acid Salt Solvent

Physical Absorption Solvent

Global Carbon Capture Solvent Market, Segmentation by Capture Process:

Post-Combustion Capture Solvent

Pre-Combustion Capture Solvent

Direct Air Capture Solvent

Global Carbon Capture Solvent Market, Segmentation by CO₂ Loading Capacity:

Low Capacity (<0.3mol/mol)

Medium Capacity (0.3-0.6mol/mol)

High Capacity (>0.6mol/mol)

Global Carbon Capture Solvent Market, Segmentation by Application:

Carbon Capture and Storage

Carbon Utilization

Industrial Decarbonization

Other

Companies Profiled:

BASF

Shell

Dow

Carbon Clean

Fluor Corporation

Mitsubishi Heavy Industries

Aker Solutions

Linde

Honeywell UOP

ExxonMobil

Susteon

TotalEnergies

Capsol Technologies

CNOOC

Sinopec

CNPC

China Huaneng Group

Key Questions Answered:

1. How big is the global Carbon Capture Solvent market?
2. What is the demand of the global Carbon Capture Solvent market?
3. What is the year over year growth of the global Carbon Capture Solvent market?
4. What is the production and production value of the global Carbon Capture Solvent market?
5. Who are the key producers in the global Carbon Capture Solvent market?
6. What are the growth factors driving the market demand?

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