

Global Carbon Capture Solvent 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 Capture Solvent market size was valued at US\$ 1852 million in 2025 and is forecast to a readjusted size of US\$ 3043 million by 2032 with a CAGR of 7.3% during review period.

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

Global Carbon Capture Solvent 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 Capture Solvent 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 Capture Solvent 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 Capture Solvent

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 Capture Solvent 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, 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.

Market Segmentation

Carbon Capture Solvent 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

Amine-Based Solvent

Amino Acid Salt Solvent

Physical Absorption Solvent

Market segment by Capture Process

Post-Combustion Capture Solvent

Pre-Combustion Capture Solvent

Direct Air Capture Solvent

Market segment by CO₂ Loading Capacity

Low Capacity (<0.3mol/mol)

Medium Capacity (0.3-0.6mol/mol)

High Capacity (>0.6mol/mol)

Market segment by Application

Carbon Capture and Storage

Carbon Utilization

Industrial Decarbonization

Other

Major players covered

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

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

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

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

Chapter 4, the Carbon Capture Solvent 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 Capture Solvent 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 Capture Solvent.

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

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