

Global Biodegradable Chelating Agents Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biodegradable Chelating Agents market size is expected to reach \$ 1353 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Biodegradable chelating agents are functional chemicals produced from natural raw materials or green chemical processes that can rapidly degrade in the environment and form stable complexes with metal ions. Common products include gluconate, GLDA, and MGDA, mainly used for water softening, formula stabilization, and metal ion removal. Global sales in 2025 were approximately 215,000 tons, with an average price of approximately US\$3.8 per kilogram. The industry's capacity utilization rate was approximately 79%. Upstream companies mainly come from the fields of bio-based chemicals, amino acid raw materials, sugar fermentation, and basic chemical raw materials. Downstream companies mainly come from the fields of water treatment, daily chemical cleaning agents, pulp and paper, textile printing and dyeing, agricultural chemicals, food processing, metal surface treatment, and environmental remediation. The industry's average gross profit margin is approximately 24%. The product cost structure mainly consists of bio-based raw material costs, fermentation or synthesis manufacturing costs, energy and utility costs, environmental treatment costs, and research and development costs. The cost breakdown includes shipping and logistics expenses, with raw materials and manufacturing costs accounting for the largest share. On the demand side, downstream demand includes industrial water treatment, household and institutional cleaners, detergent formulations, pulp and paper bleaching systems, agricultural micronutrient fertilizers, soil remediation, food processing stabilizers, and metal cleaning agents. Downstream customers include large detergent manufacturers, industrial water treatment companies, pulp and paper enterprises, agricultural input companies, metal processing companies, and public environmental

engineering companies. On the business opportunity side, policy drivers are mainly reflected in the strengthening of environmental regulations and the gradual restriction of the use of traditional recalcitrant chelating agents in various countries. Technological innovation drivers are reflected in the improved utilization rate of bio-based raw materials and the advancement of green synthesis technologies, which gradually optimize product performance and costs. Changes in consumer demand are reflected in the increasing requirements of end-brand and industrial customers for low-carbon and environmentally friendly formulations and sustainable supply chains, thereby driving a continuous increase in the substitution rate of such products in daily chemical and industrial formulations.

With increasingly stringent global environmental regulations and the continued growth in demand for green chemicals in the daily chemical and industrial sectors, biodegradable chelating agents are gradually replacing traditional EDTA products and becoming an important direction for formulation upgrades. From an industry structure perspective, water treatment, household cleaning, and pulp and paper manufacturing remain the core sources of demand, while agriculture and soil remediation are forming new incremental markets. In the future, industry competition will focus more on cost control capabilities, large-scale production capabilities, and the stability of bio-based raw material supply. Leading companies will increase their market share by expanding production capacity, optimizing fermentation routes, and developing high-performance chelating agent products. At the same time, as global brands increase their requirements for sustainable material certification and carbon footprint management, suppliers with green certification and stable quality systems will find it easier to enter the international supply chain. In the long term, the industry will maintain a steady growth trend, but in the short term, it will still be affected by raw material price fluctuations, long customer formulation verification cycles, and the cost advantages of some traditional chelating agents. Therefore, the industry will present a development pattern of technological upgrading and cost competition in parallel. It is expected that in the next few years, with the maturity of green chemical technologies and the advancement of large-scale production, the penetration rate of biodegradable chelating agents in multiple industrial fields will further increase.

This report studies the global Biodegradable Chelating Agents production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biodegradable Chelating Agents 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 Biodegradable Chelating Agents that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biodegradable Chelating Agents total production and demand, 2021-2032, (Tons)

Global Biodegradable Chelating Agents total production value, 2021-2032, (USD Million)

Global Biodegradable Chelating Agents production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Biodegradable Chelating Agents consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Biodegradable Chelating Agents domestic production, consumption, key domestic manufacturers and share

Global Biodegradable Chelating Agents production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Biodegradable Chelating Agents production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Biodegradable Chelating Agents production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Biodegradable Chelating Agents 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 Akzonobel, BASF, Cargill, Innospec, Dow Chemical, NIPPON SHOKUBAI, Kemira, Lanxess, ICL Group, Aquapharm Chemical, 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 Biodegradable Chelating Agents market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Biodegradable Chelating Agents Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biodegradable Chelating Agents Market, Segmentation by Type:

Sodium Gluconate

Ethylenediamine-n

N-disuccinic Acid (EDDS)

Glutamic Acid Diacetic Acid (GLDA)

Methylglycinediacetic Acid (MGDA)

Others

Global Biodegradable Chelating Agents Market, Segmentation by Specific Product:

GLDA

HEIDA

IDS

Other

Global Biodegradable Chelating Agents Market, Segmentation by Category:

Amino Polycarboxylate Acid

Phosphonic Acid Derivatives

Other

Global Biodegradable Chelating Agents Market, Segmentation by Application:

Disinfectants

Pulp & Paper

Bleach Stabilization

Scale Removal And Prevention

Metal Treatment Working

Dishwashing Agent

Others

Companies Profiled:

Akzonobel

BASF

Cargill

Innospec

Dow Chemical

NIPPON SHOKUBAI

Kemira

Lanxess

ICL Group

Aquapharm Chemical

Nouryon

Yuanlian Chemical

Drop (Nanjing) Bio-Tech

Key Questions Answered:

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

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