

# Global Chain Transfer Agent in Polymerization Supply, Demand and Key Producers, 2023-2029

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## Abstracts

The global Chain Transfer Agent in Polymerization market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Chain transfer agents (CTAs) are molecules that are added to a polymerization reaction in order to control the length and molecular weight of the resulting polymer chains. CTAs act by terminating the growth of polymer chains and transferring the growing radical to a small molecule, which then becomes a new radical initiator. This results in the formation of a shorter polymer chain and limits the molecular weight distribution of the final polymer.

CTAs can be classified into two categories: reversible chain transfer agents (RCTAs) and irreversible chain transfer agents (ICTAs). RCTAs are molecules that can reversibly transfer the growing radical to the CTAs and back to the growing polymer chain. This results in a dynamic equilibrium between the growing polymer chains and the CTAs, which can be adjusted to achieve a desired molecular weight distribution. ICTAs, on the other hand, irreversibly terminate the growing polymer chain, resulting in the formation of a shorter polymer chain.

CTAs are used in a variety of polymerization reactions, including free radical polymerization, ionic polymerization, and ring-opening polymerization. In free radical polymerization, CTAs are added to control the chain length and molecular weight of the final polymer. In ionic polymerization, CTAs are used to control the end-group functionality of the final polymer, as well as its molecular weight and molecular weight distribution. In ring-opening polymerization, CTAs are used to control the rate and degree of polymerization.

The use of CTAs allows for greater control over the polymerization process, resulting in more consistent and predictable properties of the final polymer product. Additionally, the use of CTAs can improve the processability of the polymer, making it easier to process into useful products such as films, fibers, and coatings.

In conclusion, chain transfer agents are molecules that are added to polymerization reactions to control the length and molecular weight of the resulting polymer chains. They can be classified into reversible and irreversible CTAs and are used in a variety of polymerization reactions to achieve greater control over the polymerization process and improve the properties of the final polymer product.

This report studies the global Chain Transfer Agent in Polymerization production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chain Transfer Agent in Polymerization, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Chain Transfer Agent in Polymerization that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Chain Transfer Agent in Polymerization total production and demand, 2018-2029, (Tons)

Global Chain Transfer Agent in Polymerization total production value, 2018-2029, (USD Million)

Global Chain Transfer Agent in Polymerization production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Chain Transfer Agent in Polymerization consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Chain Transfer Agent in Polymerization domestic production, consumption, key domestic manufacturers and share

Global Chain Transfer Agent in Polymerization production by manufacturer, production,

price, value and market share 2018-2023, (USD Million) & (Tons)

Global Chain Transfer Agent in Polymerization production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Chain Transfer Agent in Polymerization production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global Chain Transfer Agent in Polymerization 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 Chevron Phillips Chemical, BASF, Guangdong Zhonghe Plastics Co., Ltd., Yifeng New Material, Arkema, Bruno Bock, Sasaki Chemical, Daicel and Ever Flourish Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Chain Transfer Agent in Polymerization 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Chain Transfer Agent in Polymerization Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Chain Transfer Agent in Polymerization Market, Segmentation by Type

Thiol

Dodecyl Mercaptan

Carbon Tetrachloride

Other

## Global Chain Transfer Agent in Polymerization Market, Segmentation by Application

Coatings

Construction

Electrical & Electronics

Adhesives & Sealants

Optical

Other

## Companies Profiled:

Chevron Phillips Chemical

BASF

Guangdong Zhonghe Plastics Co., Ltd.

Yifeng New Material

Arkema

Bruno Bock

Sasaki Chemical

Daicel

Ever Flourish Chemical

Swan Chemical

Ruchang Mining

QingDao Lnt

INEOS Group

Akzo Nobel

## Key Questions Answered

1. How big is the global Chain Transfer Agent in Polymerization market?
2. What is the demand of the global Chain Transfer Agent in Polymerization market?
3. What is the year over year growth of the global Chain Transfer Agent in Polymerization market?
4. What is the production and production value of the global Chain Transfer Agent in Polymerization market?

5. Who are the key producers in the global Chain Transfer Agent in Polymerization market?
6. What are the growth factors driving the market demand?

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