

Global Chain Transfer Agent in Polymerization Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Chain Transfer Agent in Polymerization market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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 is a detailed and comprehensive analysis for global Chain Transfer Agent in Polymerization 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 2023, are provided.

Key Features:

Global Chain Transfer Agent in Polymerization market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Chain Transfer Agent in Polymerization market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Chain Transfer Agent in Polymerization market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Chain Transfer Agent in Polymerization market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2018-2023

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 Chain Transfer Agent in Polymerization

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 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 and Arkema, etc.

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

Market Segmentation

Chain Transfer Agent in Polymerization market is split by Type and by Application. For the period 2018-2029, 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

Thiol

Dodecyl Mercaptan

Carbon Tetrachloride

Other

Market segment by Application

Coatings

Construction

Electrical & Electronics

Adhesives & Sealants

Optical

Other

Major players covered

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

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 Chain Transfer Agent in Polymerization product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Chain Transfer Agent in Polymerization, with price, sales, revenue and global market share of Chain Transfer Agent in Polymerization from 2018 to 2023.

Chapter 3, the Chain Transfer Agent in Polymerization competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Chain Transfer Agent in Polymerization breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share

and growth rate by type, application, from 2018 to 2029.

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 2017 to 2022. and Chain Transfer Agent in Polymerization market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Chain Transfer Agent in Polymerization.

Chapter 14 and 15, to describe Chain Transfer Agent in Polymerization sales channel, distributors, customers, research findings and conclusion.

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