

# Global 1,5-Pentanediamine (Cadaverine) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global 1,5-Pentanediamine (Cadaverine) market size was valued at USD 26 million in 2023 and is forecast to a readjusted size of USD 155.6 million by 2030 with a CAGR of 29.4% during review period.

1,5-Diaminopentane, the structural formula is  $\text{NH}_2(\text{CH}_2)_5\text{NH}_2$ . Lysine is formed by decarboxylation under the action of decarboxylase when the protein is spoiled. Putrescine, the decarboxylation product of arginine and ornithine, is the component in the odor of corpse decay. Cadaverine  $\text{H}_2\text{N}(\text{CH}_2)_5\text{NH}_2$  is also known as pentamethylene diamine. Produced by decarboxylation of lysine. It is a normal component widely found in living organisms, but also exists in putrefaction as a botulinum toxin.

Cathay Biology is the largest manufacturers of 1,5-pentanediamine (cadaverine) in the world, has a share about 90%. Other players include Ning Xia Eppen Biotech, etc. China is the largest market of 1,5-pentanediamine (cadaverine), with a share a over 95%. And in terms of application, the largest application is bio-based polyamide, followed by chemical intermediates.

The Global Info Research report includes an overview of the development of the 1,5-Pentanediamine (Cadaverine) industry chain, the market status of Bio-based Polyamide (One Step Method, two-step Method), Chemical Intermediates (One Step Method, two-step Method), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of 1,5-Pentanediamine (Cadaverine).

Regionally, the report analyzes the 1,5-Pentanediamine (Cadaverine) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global 1,5-Pentanediamine (Cadaverine) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the 1,5-Pentanediamine (Cadaverine) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the 1,5-Pentanediamine (Cadaverine) industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Type (e.g., One Step Method, two-step Method).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the 1,5-Pentanediamine (Cadaverine) market.

**Regional Analysis:** The report involves examining the 1,5-Pentanediamine (Cadaverine) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the 1,5-Pentanediamine (Cadaverine) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to 1,5-Pentanediamine (Cadaverine):

**Company Analysis:** Report covers individual 1,5-Pentanediamine (Cadaverine) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards 1,5-Pentanediamine (Cadaverine) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Bio-based Polyamide, Chemical Intermediates).

**Technology Analysis:** Report covers specific technologies relevant to 1,5-Pentanediamine (Cadaverine). It assesses the current state, advancements, and potential future developments in 1,5-Pentanediamine (Cadaverine) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the 1,5-Pentanediamine (Cadaverine) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

1,5-Pentanediamine (Cadaverine) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

One Step Method

two-step Method

### Market segment by Application

Bio-based Polyamide

Chemical Intermediates

Others

Major players covered

Cathay Biology

Ning Xia Eppen Biotech

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 1,5-Pentanediamine (Cadaverine) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 1,5-Pentanediamine (Cadaverine), with price, sales, revenue and global market share of 1,5-Pentanediamine (Cadaverine) from 2019 to 2024.

Chapter 3, the 1,5-Pentanediamine (Cadaverine) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 1,5-Pentanediamine (Cadaverine) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2023. and 1,5-Pentanediamine (Cadaverine) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 1,5-Pentanediamine (Cadaverine).

Chapter 14 and 15, to describe 1,5-Pentanediamine (Cadaverine) sales channel, distributors, customers, research findings and conclusion.

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