

Global Pentanediamine Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Pentanediamine market size will reach 1,418.40 Million USD in 2025 and is projected to reach 11,591.38 Million USD by 2032, with a CAGR of 35.00% (2025-2032). Notably, the China Pentanediamine market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Pentanediamine, also known as 1,5-diaminopentane or cadaverine, is a diamine compound with the chemical formula $C_5H_{12}N_2$. It consists of a five-carbon chain with two amine groups (-NH₂) attached at either end. Pentanediamine is commonly used in the production of polymers, resins, and as a precursor in the synthesis of various chemicals, such as polyamides and specialized adhesives. It is also a key intermediate in the manufacture of certain pharmaceuticals and can be found in some biological systems as a product of protein degradation. Pentanediamine has a strong, unpleasant odor, and its presence is typically associated with decaying animal tissue, contributing to its name 'cadaverine'. In industrial applications, it plays a role in the production of nylon and other synthetic materials.

The major global manufacturers of Pentanediamine include Kaiser Bio, Ningxia Yipin Biotechnology, Toray, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong

competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Pentanediamine. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Pentanediamine market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Pentanediamine market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Pentanediamine industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Pentanediamine Include:

Kaiser Bio

Ningxia Yipin Biotechnology

Toray

Pentanediamine Product Segment Include:

Bio-based Polyamide (Nylon)

Others

Pentanediamine Product Application Include:

Agriculture

Medicine

Industry

Others

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

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