

# Pentanal Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers, Regions, Technology, Application

https://marketpublishers.com/r/P9D245493B5FEN.html

Date: April 2025

Pages: 70

Price: US\$ 3,200.00 (Single User License)

ID: P9D245493B5FEN

## **Abstracts**

Pentanal Market Summary

Introduction

Pentanal, also known as n-valeraldehyde, is a five-carbon aldehyde with the molecular formula C5H10O, widely recognized for its pungent odor and versatility as a chemical intermediate. This organic compound plays a pivotal role in the synthesis of n-amyl alcohol and n-valeric acid, serving industries such as flavors and fragrances, plastics, and pharmaceuticals. The Pentanal market is characterized by its dependence on downstream demand, particularly in industrial applications, and its production through processes like the oxidation of 1-pentanol or the hydroformylation of butene. Key trends shaping the industry include a shift toward sustainable production methods and increasing demand for high-purity grades to meet stringent regulatory standards in food and pharmaceutical applications. Its flammable nature and chemical reactivity require careful handling, influencing production and storage practices.

Market Size and Growth Forecast

The global Pentanal market was valued at USD 380 million to USD 620 million in 2024, with an estimated compound annual growth rate (CAGR) of 4.5% to 6.5% from 2025 to 2030. This growth is driven by expanding industrial applications and capacity investments in key regions.

Regional Analysis



North America exhibits a growth rate of 4.0% to 6.0%, with the United States as a major consumer due to its robust chemical manufacturing base; trends emphasize innovation in specialty chemicals. Europe records a growth rate of 4.5% to 6.5%, led by Germany, where sustainable synthesis methods are gaining traction. Asia Pacific shows a growth rate of 5.0% to 7.0%, with China dominating due to its large-scale chemical production; trends focus on cost-effective and scalable manufacturing. The Rest of the World sees a growth rate of 4.0% to 6.0%, with India emerging as a key player; trends highlight industrial expansion and affordability.

#### **Application Analysis**

n-Amyl Alcohol grows at 4.5% to 6.5%; it is widely used in solvents and flavorings, with trends leaning toward bio-based production to meet sustainability goals. n-Valeric Acid expands at 5.0% to 7.0%; it serves as a precursor for plastics and pharmaceuticals, with trends focusing on high-purity applications in drug synthesis. Others rise at 4.0% to 6.0%; this includes uses in fragrances and rubber chemicals, with trends exploring niche industrial applications.

#### **Key Market Players**

BASF, headquartered in Ludwigshafen, Germany, is a global leader in chemical production, offering Pentanal for a range of industrial applications with a strong emphasis on innovation and sustainability.

OQ Chemicals, based in Monheim, Germany, specializes in oxo intermediates, producing Pentanal for solvents and chemical synthesis with a focus on quality and efficiency.

Zibo Nalcohol Chemical, located in Zibo, China, focuses on aldehyde production, supplying Pentanal for cost-effective solutions tailored to the Asian market.

#### Porter's Five Forces Analysis

The threat of new entrants is moderate;

High capital investment and technical expertise create barriers, though growing demand may attract new players.

The threat of substitutes is moderate; alternative aldehydes like butanal



compete, but Pentanal's specific properties maintain its niche.

Buyer power is moderate; industrial clients prioritize quality and reliability, though large buyers can negotiate pricing.

Supplier power is moderate; reliance on petrochemical feedstocks ties producers to volatile raw material markets.

Competitive rivalry is high; key players vie for market share through innovation, cost efficiency, and capacity expansion.

### Market Opportunities and Challenges

#### Opportunities

Increasing demand for n-amyl alcohol in sustainable solvents presents growth potential.

Expansion of pharmaceutical applications for n-valeric acid drives high-purity production.

Emerging markets in Asia Pacific offer opportunities for capacity investments.

### Challenges

Volatility in raw material prices impacts production costs and profitability.

Stringent environmental regulations require costly compliance measures.

Competition from substitute chemicals threatens market share in certain applications.

#### **Growth Trend Analysis**

Recent developments underscore a positive growth trajectory for Pentanal. Qianhe Wanhe (Yulin) New Materials is preparing to construct a 20,000-ton-per-year n-



Valeraldehyde facility, signaling increased supply capacity to meet industrial demand. Similarly, Xinxiang Jujing Chemical is building a 5,000-ton-per-year n-amyl alcohol plant, reflecting downstream growth in solvent and flavor applications. These investments align with the projected CAGR of 4.5% to 6.5% through 2030, driven by expanding industrial needs and a focus on scalable, efficient production.



### **Contents**

#### **CHAPTER 1 EXECUTIVE SUMMARY**

#### **CHAPTER 2 ABBREVIATION AND ACRONYMS**

#### **CHAPTER 3 PREFACE**

- 3.1 Research Scope
- 3.2 Research Sources
  - 3.2.1 Data Sources
  - 3.2.2 Assumptions
- 3.3 Research Method

#### **CHAPTER 4 MARKET LANDSCAPE**

- 4.1 Market Overview
- 4.2 Classification/Types
- 4.3 Application/End Users

#### **CHAPTER 5 MARKET TREND ANALYSIS**

- 5.1 Introduction
- 5.2 Drivers
- 5.3 Restraints
- 5.4 Opportunities
- 5.5 Threats

#### **CHAPTER 6 INDUSTRY CHAIN ANALYSIS**

- 6.1 Upstream/Suppliers Analysis
- 6.2 Pentanal Analysis
  - 6.2.1 Technology Analysis
  - 6.2.2 Cost Analysis
  - 6.2.3 Market Channel Analysis
- 6.3 Downstream Buyers/End Users

#### **CHAPTER 7 LATEST MARKET DYNAMICS**



- 7.1 Latest News
- 7.2 Merger and Acquisition
- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

#### **CHAPTER 8 TRADING ANALYSIS**

- 8.1 Export of Pentanal by Region
- 8.2 Import of Pentanal by Region
- 8.3 Balance of Trade

# CHAPTER 9 HISTORICAL AND FORECAST PENTANAL MARKET IN NORTH AMERICA (2020-2030)

- 9.1 Pentanal Market Size
- 9.2 Pentanal Demand by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Type Segmentation and Price
- 9.5 Key Countries Analysis
  - 9.5.1 United States
  - 9.5.2 Canada
  - 9.5.3 Mexico

# CHAPTER 10 HISTORICAL AND FORECAST PENTANAL MARKET IN SOUTH AMERICA (2020-2030)

- 10.1 Pentanal Market Size
- 10.2 Pentanal Demand by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Type Segmentation and Price
- 10.5 Key Countries Analysis
  - 10.5.1 Brazil
  - 10.5.2 Argentina
  - 10.5.3 Chile
  - 10.5.4 Peru

# CHAPTER 11 HISTORICAL AND FORECAST PENTANAL MARKET IN ASIA & PACIFIC (2020-2030)



- 11.1 Pentanal Market Size
- 11.2 Pentanal Demand by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Type Segmentation and Price
- 11.5 Key Countries Analysis
  - 11.5.1 China
  - 11.5.2 India
  - 11.5.3 Japan
  - 11.5.4 South Korea
  - 11.5.5 Southest Asia
  - 11.5.6 Australia

# CHAPTER 12 HISTORICAL AND FORECAST PENTANAL MARKET IN EUROPE (2020-2030)

- 12.1 Pentanal Market Size
- 12.2 Pentanal Demand by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Type Segmentation and Price
- 12.5 Key Countries Analysis
  - 12.5.1 Germany
  - 12.5.2 France
  - 12.5.3 United Kingdom
  - 12.5.4 Italy
  - 12.5.5 Spain
  - 12.5.6 Belgium
  - 12.5.7 Netherlands
  - 12.5.8 Austria
  - 12.5.9 Poland
  - 12.5.10 Russia

# CHAPTER 13 HISTORICAL AND FORECAST PENTANAL MARKET IN MEA (2020-2030)

- 13.1 Pentanal Market Size
- 13.2 Pentanal Demand by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Type Segmentation and Price
- 13.5 Key Countries Analysis



- 13.5.1 Egypt
- 13.5.2 Israel
- 13.5.3 South Africa
- 13.5.4 Gulf Cooperation Council Countries
- 13.5.5 Turkey

### **CHAPTER 14 SUMMARY FOR GLOBAL PENTANAL MARKET (2020-2025)**

- 14.1 Pentanal Market Size
- 14.2 Pentanal Demand by End Use
- 14.3 Competition by Players/Suppliers
- 14.4 Type Segmentation and Price

### **CHAPTER 15 GLOBAL PENTANAL MARKET FORECAST (2025-2030)**

- 15.1 Pentanal Market Size Forecast
- 15.2 Pentanal Demand Forecast
- 15.3 Competition by Players/Suppliers
- 15.4 Type Segmentation and Price Forecast

#### **CHAPTER 16 ANALYSIS OF GLOBAL KEY VENDORS**

- 16.1 BASF
  - 16.1.1 Company Profile
  - 16.1.2 Main Business and Pentanal Information
  - 16.1.3 SWOT Analysis of BASF
  - 16.1.4 BASF Pentanal Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.2 OQ Chemicals
  - 16.2.1 Company Profile
- 16.2.2 Main Business and Pentanal Information
- 16.2.3 SWOT Analysis of OQ Chemicals
- 16.2.4 OQ Chemicals Pentanal Sales, Revenue, Price and Gross Margin (2020-2025)
- 16.3 Zibo Nalcohol Chemical
  - 16.3.1 Company Profile
- 16.3.2 Main Business and Pentanal Information
- 16.3.3 SWOT Analysis of Zibo Nalcohol Chemical
- 16.3.4 Zibo Nalcohol Chemical Pentanal Sales, Revenue, Price and Gross Margin (2020-2025)

Please ask for sample pages for full companies list



Tables and Figures

Table Abbreviation and Acronyms List

Table Research Scope of Pentanal Report

Table Data Sources of Pentanal Report

Table Major Assumptions of Pentanal Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Pentanal Picture

**Table Pentanal Classification** 

Table Pentanal Applications List

Table Drivers of Pentanal Market

Table Restraints of Pentanal Market

Table Opportunities of Pentanal Market

**Table Threats of Pentanal Market** 

Table Raw Materials Suppliers List

Table Different Production Methods of Pentanal

Table Cost Structure Analysis of Pentanal

Table Key End Users List

Table Latest News of Pentanal Market

Table Merger and Acquisition List

Table Planned/Future Project of Pentanal Market

Table Policy of Pentanal Market

Table 2020-2030 Regional Export of Pentanal

Table 2020-2030 Regional Import of Pentanal

Table 2020-2030 Regional Trade Balance

Figure 2020-2030 Regional Trade Balance

Table 2020-2030 North America Pentanal Market Size and Market Volume List

Figure 2020-2030 North America Pentanal Market Size and CAGR

Figure 2020-2030 North America Pentanal Market Volume and CAGR

Table 2020-2030 North America Pentanal Demand List by Application

Table 2020-2025 North America Pentanal Key Players Sales List

Table 2020-2025 North America Pentanal Key Players Market Share List

Table 2020-2030 North America Pentanal Demand List by Type

Table 2020-2025 North America Pentanal Price List by Type

Table 2020-2030 United States Pentanal Market Size and Market Volume List

Table 2020-2030 United States Pentanal Import & Export List

Table 2020-2030 Canada Pentanal Market Size and Market Volume List

Table 2020-2030 Canada Pentanal Import & Export List

Table 2020-2030 Mexico Pentanal Market Size and Market Volume List



Table 2020-2030 Mexico Pentanal Import & Export List

Table 2020-2030 South America Pentanal Market Size and Market Volume List

Figure 2020-2030 South America Pentanal Market Size and CAGR

Figure 2020-2030 South America Pentanal Market Volume and CAGR

Table 2020-2030 South America Pentanal Demand List by Application

Table 2020-2025 South America Pentanal Key Players Sales List

Table 2020-2025 South America Pentanal Key Players Market Share List

Table 2020-2030 South America Pentanal Demand List by Type

Table 2020-2025 South America Pentanal Price List by Type

Table 2020-2030 Brazil Pentanal Market Size and Market Volume List

Table 2020-2030 Brazil Pentanal Import & Export List

Table 2020-2030 Argentina Pentanal Market Size and Market Volume List

Table 2020-2030 Argentina Pentanal Import & Export List

Table 2020-2030 Chile Pentanal Market Size and Market Volume List

Table 2020-2030 Chile Pentanal Import & Export List

Table 2020-2030 Peru Pentanal Market Size and Market Volume List

Table 2020-2030 Peru Pentanal Import & Export List

Table 2020-2030 Asia & Pacific Pentanal Market Size and Market Volume List

Figure 2020-2030 Asia & Pacific Pentanal Market Size and CAGR

Figure 2020-2030 Asia & Pacific Pentanal Market Volume and CAGR

Table 2020-2030 Asia & Pacific Pentanal Demand List by Application

Table 2020-2025 Asia & Pacific Pentanal Key Players Sales List

Table 2020-2025 Asia & Pacific Pentanal Key Players Market Share List

Table 2020-2030 Asia & Pacific Pentanal Demand List by Type

Table 2020-2025 Asia & Pacific Pentanal Price List by Type

Table 2020-2030 China Pentanal Market Size and Market Volume List

Table 2020-2030 China Pentanal Import & Export List

Table 2020-2030 India Pentanal Market Size and Market Volume List

Table 2020-2030 India Pentanal Import & Export List

Table 2020-2030 Japan Pentanal Market Size and Market Volume List

Table 2020-2030 Japan Pentanal Import & Export List

Table 2020-2030 South Korea Pentanal Market Size and Market Volume List

Table 2020-2030 South Korea Pentanal Import & Export List

Table 2020-2030 Southeast Asia Pentanal Market Size List

Table 2020-2030 Southeast Asia Pentanal Market Volume List

Table 2020-2030 Southeast Asia Pentanal Import List

Table 2020-2030 Southeast Asia Pentanal Export List

Table 2020-2030 Australia Pentanal Market Size and Market Volume List

Table 2020-2030 Australia Pentanal Import & Export List



Table 2020-2030 Europe Pentanal Market Size and Market Volume List

Figure 2020-2030 Europe Pentanal Market Size and CAGR

Figure 2020-2030 Europe Pentanal Market Volume and CAGR

Table 2020-2030 Europe Pentanal Demand List by Application

Table 2020-2025 Europe Pentanal Key Players Sales List

Table 2020-2025 Europe Pentanal Key Players Market Share List

Table 2020-2030 Europe Pentanal Demand List by Type

Table 2020-2025 Europe Pentanal Price List by Type

Table 2020-2030 Germany Pentanal Market Size and Market Volume List

Table 2020-2030 Germany Pentanal Import & Export List

Table 2020-2030 France Pentanal Market Size and Market Volume List

Table 2020-2030 France Pentanal Import & Export List

Table 2020-2030 United Kingdom Pentanal Market Size and Market Volume List

Table 2020-2030 United Kingdom Pentanal Import & Export List

Table 2020-2030 Italy Pentanal Market Size and Market Volume List

Table 2020-2030 Italy Pentanal Import & Export List

Table 2020-2030 Spain Pentanal Market Size and Market Volume List

Table 2020-2030 Spain Pentanal Import & Export List

Table 2020-2030 Belgium Pentanal Market Size and Market Volume List

Table 2020-2030 Belgium Pentanal Import & Export List

Table 2020-2030 Netherlands Pentanal Market Size and Market Volume List

Table 2020-2030 Netherlands Pentanal Import & Export List

Table 2020-2030 Austria Pentanal Market Size and Market Volume List

Table 2020-2030 Austria Pentanal Import & Export List

Table 2020-2030 Poland Pentanal Market Size and Market Volume List

Table 2020-2030 Poland Pentanal Import & Export List

Table 2020-2030 Russia Pentanal Market Size and Market Volume List

Table 2020-2030 Russia Pentanal Import & Export List

Table 2020-2030 MEA Pentanal Market Size and Market Volume List

Figure 2020-2030 MEA Pentanal Market Size and CAGR

Figure 2020-2030 MEA Pentanal Market Volume and CAGR

Table 2020-2030 MEA Pentanal Demand List by Application

Table 2020-2025 MEA Pentanal Key Players Sales List

Table 2020-2025 MEA Pentanal Key Players Market Share List

Table 2020-2030 MEA Pentanal Demand List by Type

Table 2020-2025 MEA Pentanal Price List by Type

Table 2020-2030 Egypt Pentanal Market Size and Market Volume List

Table 2020-2030 Egypt Pentanal Import & Export List

Table 2020-2030 Israel Pentanal Market Size and Market Volume List



Table 2020-2030 Israel Pentanal Import & Export List

Table 2020-2030 South Africa Pentanal Market Size and Market Volume List

Table 2020-2030 South Africa Pentanal Import & Export List

Table 2020-2030 Gulf Cooperation Council Countries Pentanal Market Size and Market Volume List

Table 2020-2030 Gulf Cooperation Council Countries Pentanal Import & Export List

Table 2020-2030 Turkey Pentanal Market Size and Market Volume List

Table 2020-2030 Turkey Pentanal Import & Export List

Table 2020-2025 Global Pentanal Market Size List by Region

Table 2020-2025 Global Pentanal Market Size Share List by Region

Table 2020-2025 Global Pentanal Market Volume List by Region

Table 2020-2025 Global Pentanal Market Volume Share List by Region

Table 2020-2025 Global Pentanal Demand List by Application

Table 2020-2025 Global Pentanal Demand Market Share List by Application

Table 2020-2025 Global Pentanal Capacity List

Table 2020-2025 Global Pentanal Key Vendors Capacity Share List

Table 2020-2025 Global Pentanal Key Vendors Production List

Table 2020-2025 Global Pentanal Key Vendors Production Share List

Figure 2020-2025 Global Pentanal Capacity Production and Growth Rate

Table 2020-2025 Global Pentanal Key Vendors Production Value List

Figure 2020-2025 Global Pentanal Production Value and Growth Rate

Table 2020-2025 Global Pentanal Key Vendors Production Value Share List

Table 2020-2025 Global Pentanal Demand List by Type

Table 2020-2025 Global Pentanal Demand Market Share List by Type

Table 2020-2025 Regional Pentanal Price List

Table 2025-2030 Global Pentanal Market Size List by Region

Table 2025-2030 Global Pentanal Market Size Share List by Region

Table 2025-2030 Global Pentanal Market Volume List by Region

Table 2025-2030 Global Pentanal Market Volume Share List by Region

Table 2025-2030 Global Pentanal Demand List by Application

Table 2025-2030 Global Pentanal Demand Market Share List by Application

Table 2025-2030 Global Pentanal Capacity List

Table 2025-2030 Global Pentanal Key Vendors Capacity Share List

Table 2025-2030 Global Pentanal Key Vendors Production List

Table 2025-2030 Global Pentanal Key Vendors Production Share List

Figure 2025-2030 Global Pentanal Capacity Production and Growth Rate

Table 2025-2030 Global Pentanal Key Vendors Production Value List

Figure 2025-2030 Global Pentanal Production Value and Growth Rate

Table 2025-2030 Global Pentanal Key Vendors Production Value Share List



Table 2025-2030 Global Pentanal Demand List by Type

Table 2025-2030 Global Pentanal Demand Market Share List by Type

Table 2025-2030 Pentanal Regional Price List

**Table BASF Information** 

Table SWOT Analysis of BASF

Table 2020-2025 BASF Pentanal Product Capacity Production Price Cost Production Value

Figure 2020-2025 BASF Pentanal Capacity Production and Growth Rate

Figure 2020-2025 BASF Pentanal Market Share

Table OQ Chemicals Information

Table SWOT Analysis of OQ Chemicals

Table 2020-2025 OQ Chemicals Pentanal Product Capacity Production Price Cost Production Value

Figure 2020-2025 OQ Chemicals Pentanal Capacity Production and Growth Rate

Figure 2020-2025 OQ Chemicals Pentanal Market Share

Table Zibo Nalcohol Chemical Information

Table SWOT Analysis of Zibo Nalcohol Chemical

Table 2020-2025 Zibo Nalcohol Chemical Pentanal Product Capacity Production Price Cost Production Value

Figure 2020-2025 Zibo Nalcohol Chemical Pentanal Capacity Production and Growth Rate

Figure 2020-2025 Zibo Nalcohol Chemical Pentanal Market Share

.....



#### I would like to order

Product name: Pentanal Global Market Insights 2025, Analysis and Forecast to 2030, by Manufacturers,

Regions, Technology, Application

Product link: https://marketpublishers.com/r/P9D245493B5FEN.html

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/P9D245493B5FEN.html">https://marketpublishers.com/r/P9D245493B5FEN.html</a>