

# **Valine Market By Type (D-Valine, L-Valine) , By End-Use Industry (Feed Industry, Food Industry, Pharmaceutical Industry, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

The valine market was valued at \$323.1 million in 2023, and is projected to reach \$423.6 million by 2033, growing at a CAGR of 2.8% from 2024 to 2033.

Valine is a branched-chain essential amino acids that cannot be synthesized in the body and must be obtained through diet. Valine is particularly important for stimulating muscle growth, tissue repair, and providing energy during physical activity. It is also involved in maintaining nitrogen balance in the body and supports cognitive function and emotional stability. Valine-rich foods include dairy products, meats, soy, and legumes.

The growth of the global valine market is driven by surge in demand for dietary supplements. As awareness about health and fitness grows, consumers are increasingly turning to amino acid supplements like valine for muscle recovery, endurance, and overall performance, especially among athletes and fitness enthusiasts. A study published in 2021 by the International Society of Sports Nutrition highlighted that branched-chain amino acid supplements, which include valine, are consumed by 37% of athletes to enhance performance, muscle recovery, and reduce muscle fatigue. In addition, expansion of the animal feed industry notably contributes toward the market growth. This is attributed to the fact that valine is an essential component of animal feed formulations, particularly in poultry and swine farming, where it supports growth, protein synthesis, and improves feed efficiency, driving its demand in the agricultural sector. Moreover, rise in prevalence of chronic diseases acts as the key driving force of the global market. The therapeutic role of valine in managing muscle-wasting conditions, liver disorders, and neurological diseases is boosting its use in medical and

pharmaceutical applications. According to the 2023 study published by the World Health Organization, approximately 41 million individuals die each year due to chronic diseases. Furthermore, as more consumers shift toward plant-based diets, there is an increasing demand for plant-derived amino acids, including valine, in alternative protein products and supplements, thereby augmenting the market growth. However, the overall cost of producing high-purity valine, especially through synthetic and fermentation processes, remains significant, limiting accessibility for small-scale manufacturers. Moreover, availability of other essential amino acids, such as leucine and isoleucine, which are also part of the branched-chain amino acids, play a significant role in muscle synthesis and recovery, thus limiting the demand for valine. On the contrary, improved production processes, such as fermentation techniques, have lowered manufacturing costs and increased the supply of high-purity valine. Such developments are expected to offer remunerative opportunities for the expansion of the valine market during the forecast period.

The valine market is segmented into type, end-use industry, and region. By type, the market is classified into D-valine, and L-valine. As per the end-use industry, it is categorized into feed industry, food industry, pharmaceutical industry, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

### Key Findings

By type, the L-valine segment emerged as the dominant force in the valine market in 2023.

On the basis of end-use industry, the feed industry segment dominated the market in 2023.

Region wise, Asia-Pacific was the most lucrative market for valine in 2023.

### Competition Analysis

Competitive analysis and profiles of the major players in the global valine market include Ajinomoto Co., Inc., Foodchem International Corporation, Kyowa Hakko Bio Co., Ltd., Fuerst Day Lawson Ltd., Meihua Holdings Group Co., Ltd., Penta Manufacturing Company, Fufeng Group Company Limited, Wuxi Jinghai Amino Acid Co., Ltd., Evonik Industries AG, and Avanscure Lifesciences Private Limited. These major players have adopted various key development strategies such as business expansion, new product

launches, and partnerships to sustain the intense competition and gain a strong foothold in the global market.

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Expanded list for Company Profiles

Historic market data

Volume Market Size and Forecast

## Key Market Segments

### By Type

D-Valine

L-Valine

### By End-Use Industry

Feed Industry

Food Industry

Pharmaceutical Industry

Others

### By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Ajinomoto Co., Inc.

Foodchem International Corporation

Kyowa Hakko Bio Co., Ltd.

Fuerst Day Lawson Ltd.

Meihua Holdings Group Co., Ltd.

Penta Manufacturing Company

Fufeng Group Company Limited

Wuxi Jinghai Amino Acid Co., Ltd.

Evonik Industries AG

Avanscure Lifesciences Private Limited

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