

Global Vitamin D3 (Cholecalciferol) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Vitamin D3 (Cholecalciferol) market size was valued at US\$ 194 million in 2024 and is forecast to a readjusted size of USD 235 million by 2031 with a CAGR of 2.8% during review period.

Vitamin D3, also known by its chemical name cholecalciferol (9,10-seco(5Z,7E)-5,7,10(19)-cholestatrien-3-ol), is a fat-soluble vitamin that plays a crucial role in regulating calcium and phosphate levels in the body, which are essential for maintaining healthy bones and teeth. This compound can be synthesized naturally in the skin when exposed to ultraviolet (UV) rays from sunlight, or it can be obtained from dietary sources. In commercial production, Vitamin D3 is commonly isolated from fish liver oils, such as cod liver oil, and is also produced synthetically by irradiating 7-dehydrocholesterol, a compound derived from cholesterol, with ultraviolet light. Once synthesized, Vitamin D3 is typically purified through crystallization to ensure its potency and stability for use in supplements and food fortification.

Vitamin D3 is essential for preventing diseases related to bone density, such as rickets in children and osteoporosis in adults. It is also linked to broader health benefits, including immune system support and potential protection against certain chronic conditions. Due to the essential role of this vitamin in health, Vitamin D3 supplements are widely consumed globally, and they are a critical component in the dietary supplement industry.

Market Overview

The global Vitamin D3 market is primarily driven by several key players, including

Zhejiang Garden Biochemical High-tech, Taizhou Hisound Pharmaceutical, Kingdomway, and NHU. These companies dominate the production and supply of Vitamin D3, with the top four manufacturers holding a combined market share of approximately 80%. Zhejiang Garden Biochemical High-tech, a leading Chinese company, is a major player in this space and plays a critical role in the global supply chain. These manufacturers produce Vitamin D3 for a variety of applications, including dietary supplements, food fortification, pharmaceuticals, and animal feed.

China is the largest producer and consumer of Vitamin D3, accounting for more than 80% of the global market. The country's dominance is due to its well-established manufacturing infrastructure, competitive production costs, and access to key raw materials. China's leadership in the market is supported by its ability to produce large volumes of Vitamin D3 for both domestic consumption and export. The global market is experiencing steady demand, particularly in regions such as North America and Europe, where Vitamin D3 supplements are widely used for maintaining overall health and wellness, especially among aging populations who are more prone to Vitamin D deficiencies.

Market Trends and Growth Drivers

The Vitamin D3 market is poised for sustained growth due to several key factors. One of the main drivers is the increasing awareness of the health benefits associated with Vitamin D3, particularly in relation to bone health, immune function, and overall wellness. With rising incidences of Vitamin D deficiencies in populations worldwide, particularly in regions with limited sun exposure, the demand for Vitamin D3 supplements is increasing. This is especially true in North America and Europe, where lifestyle factors, including time spent indoors and use of sunblock, have led to higher demand for supplementation.

In addition to supplements, the fortified foods and beverages sector is contributing to market expansion. More food manufacturers are adding Vitamin D3 to products such as milk, cereals, and juices to meet consumer demand for fortified options. Another important trend in the market is the growing use of Vitamin D3 in animal feed, especially for livestock and poultry. Vitamin D3 is essential for ensuring healthy bone development in animals, and its inclusion in feed is becoming more widespread as the agricultural industry seeks to improve animal welfare and productivity.

However, the market faces challenges, such as fluctuations in raw material prices and potential supply chain disruptions. As China is the leading producer, any shifts in

production capacity or export regulations could impact global supply. Despite these challenges, the outlook for the Vitamin D3 market remains positive, driven by growing health awareness, increasing research on the benefits of Vitamin D, and expanding applications across multiple sectors.

This report is a detailed and comprehensive analysis for global Vitamin D3 (Cholecalciferol) 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 2025, are provided.

Key Features:

Global Vitamin D3 (Cholecalciferol) market size and forecasts, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/MT), 2020-2031

Global Vitamin D3 (Cholecalciferol) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/MT), 2020-2031

Global Vitamin D3 (Cholecalciferol) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MT), and average selling prices (USD/MT), 2020-2031

Global Vitamin D3 (Cholecalciferol) market shares of main players, shipments in revenue (\$ Million), sales quantity (MT), and ASP (USD/MT), 2020-2025

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 Vitamin D3 (Cholecalciferol)

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 Vitamin D3 (Cholecalciferol) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Zhejiang Garden Biochemical High-tech, Taizhou Hisound Pharmaceutical, Kingdomway, NHU, DSM, BASF, Zhejiang Medicine, Fermenta, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Vitamin D3 (Cholecalciferol) market is split by Type and by Application. For the period 2020-2031, 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

Vitamin D3 Oil

Vitamin D3 Powder

Vitamin D3 Crystallization

Market segment by Application

Food

Pharmaceuticals

Feed

Major players covered

Zhejiang Garden Biochemical High-tech

Taizhou Hisound Pharmaceutical

Kingdomway

NHU

DSM

BASF

Zhejiang Medicine

Fermenta

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 Vitamin D3 (Cholecalciferol) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vitamin D3 (Cholecalciferol), with price, sales quantity, revenue, and global market share of Vitamin D3 (Cholecalciferol) from 2020 to 2025.

Chapter 3, the Vitamin D3 (Cholecalciferol) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by

landscape contrast.

Chapter 4, the Vitamin D3 (Cholecalciferol) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Vitamin D3 (Cholecalciferol) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Vitamin D3 (Cholecalciferol).

Chapter 14 and 15, to describe Vitamin D3 (Cholecalciferol) sales channel, distributors, customers, research findings and conclusion.

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