

Mevalonic Acid Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Application (Pharmaceutical & Biotechnology Industry, Cosmetic Industry, Terpene Production, Others), By Region and Competition

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Abstracts

Global Mevalonic Acid market is expected to grow impressively through 2028 due to the growing demand for isoprenoids in the pharmaceutical industry. In 2021, the pharmaceutical industry in China generated a total operating revenue of more than USD45 billion.

Mevalonic acid is a molecule that plays a crucial role in the biosynthesis of isoprenoids, which are a diverse class of natural products that have a wide range of biological activities. Isoprenoids include important molecules such as sterols, carotenoids, and quinones, which are essential components of many biological processes, including cellular respiration, photosynthesis, and hormone synthesis. Mevalonic acid is a 6-carbon molecule with the chemical formula $C_6H_{12}O_4$. It is synthesized in the cytoplasm of eukaryotic cells from acetyl-CoA through a series of enzymatic reactions catalyzed by the enzyme HMG-CoA reductase. This process is the first committed step in the biosynthesis of isoprenoids, which are then further modified to produce a wide variety of compounds with diverse functions. Mevalonic acid is a key intermediate in the biosynthesis of cholesterol, which is an essential component of cell membranes and a precursor for the synthesis of many hormones. Inhibition of HMG-CoA reductase, the enzyme that catalyzes the synthesis of mevalonic acid, is a common strategy for the treatment of hypercholesterolemia and other related disorders.

Mevalonic acid is also a precursor for the synthesis of coenzyme Q10, which is a vital component of the electron transport chain in mitochondria, the organelles responsible

for producing energy in eukaryotic cells. Coenzyme Q10 is also a potent antioxidant and has been shown to have a wide range of beneficial effects on human health. In addition to its role in the biosynthesis of cholesterol and coenzyme Q10, mevalonic acid is also a precursor for the synthesis of a variety of other isoprenoids, including isopentenyl pyrophosphate (IPP) and dimethylallyl pyrophosphate (DMAPP). These molecules are essential building blocks for the synthesis of a wide variety of natural products, including carotenoids, chlorophyll, and vitamin E.

Mevalonic acid is also used in the cosmetic industry to produce compounds such as squalene, which is widely used in skin care products due to its moisturizing properties. The demand for squalene is expected to grow in the coming years due to increasing consumer awareness about the benefits of natural and organic ingredients in cosmetic products.

Global Mevalonic acid market is expected to grow in the coming years due to increasing demand for isoprenoids in various industries, particularly in the pharmaceutical and cosmetic industries. The Asia-Pacific region is expected to be the fastest-growing market for mevalonic acid due to the presence of a large number of manufacturers in the region. The key players in the market are primarily focused on expanding their production capacity to meet the growing demand for mevalonic acid in various industries.

Increasing Demand for Isoprenoids and Growing Cosmetic Industry are Driving Market Growth

Mevalonic acid is primarily used as a precursor for the synthesis of a variety of isoprenoids, which are widely used in the pharmaceutical industry to treat a variety of diseases, such as cardiovascular diseases, cancer, and neurodegenerative diseases, among others. The demand for isoprenoids in the pharmaceutical industry is expected to increase in the coming years due to the growing prevalence of these diseases and the increasing focus on research and development in the pharmaceutical industry.

Mevalonic acid is also used in the cosmetic industry to produce compounds such as squalene, which is widely used in skin care products due to its moisturizing properties. The demand for squalene is expected to grow in the coming years due to increasing consumer awareness about the benefits of natural and organic ingredients in cosmetic products. As a result, the demand for mevalonic acid in the cosmetic industry is also expected to increase in the coming years.

Rising Demand from Emerging Economies is Driving Market Growth

Emerging economies such as China and India are expected to be significant markets for mevalonic acid due to the growing demand for isoprenoids in various industries in these countries. The increasing focus on research and development in the pharmaceutical industry and the growing demand for natural and organic ingredients in cosmetic products are expected to drive the demand for mevalonic acid in these countries.

Mevalonic acid is used as a precursor for the synthesis of carotenoids, which are widely used in the food industry as food colorants and antioxidants. The expansion of the food industry, particularly in emerging economies, is expected to drive the demand for carotenoids, which in turn is expected to increase the demand for mevalonic acid in the coming years.

Major Challenges faced by Mevalonic Acid Market

Mevalonic acid is primarily produced through fermentation, which requires significant investment in infrastructure and equipment. The high production costs associated with mevalonic acid production can affect the overall profitability of the industry. In addition, the cost of raw materials, such as glucose and yeast extract, can also affect the production cost of mevalonic acid.

The yield of mevalonic acid production through fermentation is relatively low, which can affect the overall production efficiency of the industry. Low yield can result in high production costs and reduced profitability. As a result, the industry is focused on developing new and improved strains of microorganisms that can produce mevalonic acid more efficiently.

Mevalonic acid industry is subject to various regulations related to the use of the compound in different industries, such as the pharmaceutical and cosmetic industries. Compliance with these regulations can be challenging and can result in additional costs for the industry. In addition, changes in regulations can affect the demand for mevalonic acid in different industries, making it challenging for companies to plan their production accordingly.

Although mevalonic acid is used as a precursor for the synthesis of isoprenoids, its applications are limited to specific industries such as the pharmaceutical and cosmetic industries. As a result, the demand for mevalonic acid is concentrated in a few industries, which can affect the overall growth of the market.

Market Segmentation

Global Mevalonic Acid Market is segmented based on application, region and competitive landscape. Based on the Application, the market is categorized into Pharmaceutical & Biotechnology Industry, Cosmetic Industry, Terpene Production, Others. Based on region, the market is divided into North America, Europe, Asia Pacific, South America, Middle East & Africa.

Market Players

Sigma-Aldrich Chemicals Private Limited, Tlc Pharmaceutical Standards Ltd, Carbosynth Ltd., Tocris Bioscience, TCI Chemicals, Cayman Chemical Company, Santa Cruz Biotechnology, Inc., Adooq Bioscience are some of the key players in the Global Mevalonic Acid Market.

Report Scope:

In this report, Global Mevalonic Acid market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Mevalonic Acid Market, By Application:

Pharmaceutical & Biotechnology Industry

Cosmetic Industry

Terpene Production

Others

Mevalonic Acid Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Spain

Italy

Asia-Pacific

China

India

South Korea

Japan

Australia

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive landscape

Company Profiles: Detailed analysis of the major companies present in Global Mevalonic Acid market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

2. RESEARCH METHODOLOGY

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL MEVALONIC ACID MARKET

5. IMPACT OF RUSSIA-UKRAINE WAR CRISIS ON GLOBAL MEVALONIC ACID MARKET

6. VOICE OF CUSTOMER

7. GLOBAL MEVALONIC ACID MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value & Volume

7.2. Market Share & Forecast

7.2.1. By Application (Pharmaceutical & Biotechnology Industry, Cosmetic Industry, Terpene Production, Others)

7.2.2. By Region

7.2.3. By Company (2022)

7.3. Product Market Map

8. NORTH AMERICA MEVALONIC ACID MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value & Volume

8.2. Market Share & Forecast

8.2.1. By Application

8.2.2. By Country

8.3. North America: Country Analysis

8.3.1. United States Mevalonic Acid Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value & Volume

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Application

8.3.2. Mexico Mevalonic Acid Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value & Volume

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Application

8.3.3. Canada Mevalonic Acid Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value & Volume

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Application

9. EUROPE MEVALONIC ACID MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value & Volume

9.2. Market Share & Forecast

9.2.1. By Application

9.2.2. By Country

9.3. Europe: Country Analysis

9.3.1. France Mevalonic Acid Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value & Volume

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Application

9.3.2. Germany Mevalonic Acid Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value & Volume

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Application

9.3.3. United Kingdom Mevalonic Acid Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value & Volume

9.3.3.2. Market Share & Forecast

- 9.3.3.2.1. By Application
- 9.3.4. Italy Mevalonic Acid Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value & Volume
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Application
- 9.3.5. Spain Mevalonic Acid Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value & Volume
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Application

10. ASIA-PACIFIC MEVALONIC ACID MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value & Volume
- 10.2. Market Share & Forecast
 - 10.2.1. By Application
 - 10.2.2. By Country
- 10.3. Asia-Pacific: Country Analysis
 - 10.3.1. China Mevalonic Acid Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value & Volume
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Application
 - 10.3.2. India Mevalonic Acid Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value & Volume
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Application
 - 10.3.3. South Korea Mevalonic Acid Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value & Volume
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Application
 - 10.3.4. Japan Mevalonic Acid Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value & Volume
 - 10.3.4.2. Market Share & Forecast

- 10.3.4.2.1. By Application
- 10.3.5. Australia Mevalonic Acid Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value & Volume
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Application

11. SOUTH AMERICA MEVALONIC ACID MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value & Volume
- 11.2. Market Share & Forecast
 - 11.2.1. By Application
 - 11.2.2. By Country
- 11.3. South America: Country Analysis
 - 11.3.1. Brazil Mevalonic Acid Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value & Volume
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Application
 - 11.3.2. Argentina Mevalonic Acid Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value & Volume
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Application
 - 11.3.3. Colombia Mevalonic Acid Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value & Volume
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Application

12. MIDDLE EAST AND AFRICA MEVALONIC ACID MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Value & Volume
- 12.2. Market Share & Forecast
 - 12.2.1. By Application
 - 12.2.2. By Country
- 12.3. MEA: Country Analysis

12.3.1. South Africa Mevalonic Acid Market Outlook

12.3.1.1. Market Size & Forecast

12.3.1.1.1. By Value & Volume

12.3.1.2. Market Share & Forecast

12.3.1.2.1. By Application

12.3.2. Saudi Arabia Mevalonic Acid Market Outlook

12.3.2.1. Market Size & Forecast

12.3.2.1.1. By Value & Volume

12.3.2.2. Market Share & Forecast

12.3.2.2.1. By Application

12.3.3. UAE Mevalonic Acid Market Outlook

12.3.3.1. Market Size & Forecast

12.3.3.1.1. By Value & Volume

12.3.3.2. Market Share & Forecast

12.3.3.2.1. By Application

13. MARKET DYNAMICS

13.1. Drivers

13.2. Challenges

14. MARKET TRENDS & DEVELOPMENTS

14.1. Product Launches

14.2. Mergers & Acquisitions

14.3. Technological Developments

15. COMPETITIVE LANDSCAPE

15.1. Business Overview

15.2. Financial Analysis (In case of listed companies)

15.3. Key Product Offerings

15.4. Recent Developments

15.5. Key Personnel/Contact Person Details

15.6. SWOT Analysis

15.6.1. Sigma-Aldrich Chemicals Private Limited

15.6.2. Tlc Pharmaceutical Standards Ltd

15.6.3. Carbosynth Ltd.

15.6.4. Tocris Bioscience

- 15.6.5. TCI Chemicals
- 15.6.6. Cayman Chemical Company
- 15.6.7. Santa Cruz Biotechnology, Inc.
- 15.6.8. Adooq Bioscience

16. STRATEGIC RECOMMENDATIONS

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