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Global

Industrial Enzymes

January 2018



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About This Report

Scope & Method

This report forecasts to 2021 global demand for industrial enzymes by type, market, and major world region in nominal US dollars at the manufacturer level. Type segments include:

- carbohydrases
- proteases
- phytases
- lipases
- other industrial enzymes

Reported markets encompass:

- food and beverages
- cleaning products
- biofuel production
- animal feed
- other markets such as textiles and leather, pulp and paper, and wastewater treatment

Major world regions include North America, Western Europe, Asia/Pacific, and all other regions.

To illustrate historical trends, world, type, market, and regional demand (including type and market segments) are provided for 2006, 2011, and 2016. Finally, global production is segmented by major world region and provided for 2006, 2011, 2016, and 2021.

This report quantifies trends in terms of compound annual growth rates (CAGRs), which, by definition, employ in their calculation only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the trend beginning in the base year and ending in the forecast year. Forecasts are developed via the identification and analysis of pertinent statistical relationships and other historical trends and events, as well as their expected impact over the forecast period. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

For any given historical year, US dollar amounts are obtained from values expressed in applicable local currency. These local currency values are converted to US dollars using a constant 2016 exchange rate. For forecast years, the US dollar amounts assume the same annual exchange rate as that prevailing in 2016.

About This Report

Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Global Industrial Enzymes (FW35117) is based on a [comprehensive industry study](#) published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 10 | Industry Codes Related to Industrial Enzymes

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
325199	All other basic organic chemical manufacturing	2869	Industrial organic chemicals, not elsewhere classified

Source: US Census Bureau

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Resources

The Freedonia Group

Global Industrial Enzymes, January 2018

Freedonia Industry Studies

Global Industrial & Institutional Cleaning Chemicals, October 2017

Global Water Disinfection Equipment Market, August 2017

Natural Alternative Sweeteners Market in the US, July 2017

Food & Beverage Natural Colors Market in the US, July 2017

Global Water Treatment Chemicals, June 2017

Food & Beverage Hydrocolloids Market in the US, May 2017

Drilling Fluids & Chemicals Market in the US, May 2017

Alternative Sweeteners Market in the US, February 2017

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Dairy Products: United States

Global Water Disinfection Equipment

Industrial & Institutional Cleaning Chemicals: United States

Natural Flavors & Fragrances: United States

Paper & Paperboard: United States

Renewable Energy: United States

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Yogurt: United States

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Advanced Biofuels Association

American Feed Industry Association

American Cleaning Institute

European Renewable Ethanol Association

About This Report

International Feed Industry Federation
United States International Trade Commission
Worldwide Cleaning Industry Association