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Global Microwave Digestion System Market, 2020-2026

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Abstracts

Microwaves are used in conjunction with acid digestion to break down samples in preparation for elemental analysis by inductively coupled plasma/mass spectrometry (ICP/MS), inductively coupled plasma/atomic emission spectrometry (ICP/AES), or similar methods. The heat from the microwaves speeds up the chemical reaction of the acid with the sample, reducing the digestion time from hours to minutes.

Microwave digestion is carried out on large soil, sludge, slurry, or oil samples for environmental and industrial applications. It is used for preparing steel samples to determine the content levels of elements such as boron or silicon. It is also widely used for smaller-scale food and beverage samples to detect trace mineral nutrients and trace elements for health and safety purposes. In recent years, the demand has grown for trace element testing of pharmaceutical excipients, intermediates, and final products. Other typical applications include polymers, textiles, and botanical samples. According to Gen Consulting Company, global microwave digestion system market is projected to grow at a CAGR of 4.46% during the forecast period 2020-2026. The market for microwave digestion system is expected to be driven in large part by the rising adoption of trace element determination solutions in environmental, industrial, food and beverage, pharmaceutical, biotechnology, polymers, textiles, etc.

The microwave digestion system market is segmented on the basis of application, and region. By application, the microwave digestion system market is classified into Food, Environmental, Research Institutes, Medical & Pharmaceuticals, Metallurgy, Chemical & Petrochemical, Mining & Geology, Agricultural. On the basis of region, the microwave digestion system industry is analyzed across North America, Europe, Asia-Pacific, South America and MEA (the Middle East, and Africa). With a 36.05% share of the market for microwave digestion system, North America is the largest regional market

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and is expected to grow at a CAGR of 4.02% during the forecast period. North America is followed by Europe with a 32.20% share and Asia-Pacific with a 24.86% share. Asia-Pacific has the highest projected growth at a CAGR of 6.18% from 2020 through 2026. Major factors impacting the market are increased spending on research and development in developing economies.

By Application:

Food

Environmental

Research Institutes

Medical & Pharmaceuticals

Metallurgy

Chemical & Petrochemical

Mining & Geology

Agricultural

By region, the market is analyzed across North America, Asia Pacific, Europe, Middle East & Africa and South America. This report forecasts revenue growth at global, regional & country level from 2020 to 2026.

North America (U.S., Canada, Mexico, etc.)

Asia-Pacific (China, Japan, India, Korea, Australia, Indonesia, Taiwan, Thailand, etc.)

Europe (Germany, UK, France, Italy, Russia, Spain, etc.)

Middle East & Africa (Turkey, Saudi Arabia, Iran, Egypt, Nigeria, UAE, Israel, South Africa, etc.)

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South America (Brazil, Argentina, Colombia, Chile, Venezuela, Peru, etc.)

The market research report covers the analysis of key stake holders of the microwave digestion system market. Some of the leading players profiled in the report include:

Analytik Jena AG

Anton Paar GmbH

APL Instrument Co., Ltd.

Aurora Biomed Inc.

Berghof Products + Instruments GmbH

CEM Corporation

Shanghai Hengping Apparatus & Instruments Factory (Shanghai Yatai Instrument Co., Ltd.)

Nanjing Kejie Analysis Instrument Co., Ltd.

Labtron Equipment Ltd

Shanghai Metash Instruments Co., Ltd.

Milestone Srl

PerkinElmer, Inc.

PG Instruments Ltd

Preekem Scientific Instruments Co., Ltd.

Questron Technologies Corp.

SCP Science

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Shanghai Sineo Microwave Chemistry Technology Co., Ltd.

Spectrum Instruments GmbH

Beijing Xiangyuan Science and Technology Development Co., Ltd.

Shanghai Xintuo Analysis Instrument Technology Co., Ltd.

*list is not exhaustive, request free sample to get a complete list of companies

The base year of the study is 2019, and forecasts run up to 2026.

Research Objective

To analyze and forecast the market size of global microwave digestion system market.

To classify and forecast global microwave digestion system market based on application, and region.

To identify drivers and challenges for global microwave digestion system market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in global microwave digestion system market.

To conduct pricing analysis for global microwave digestion system market.

To identify and analyze the profile of leading players operating in global microwave digestion system market.

The report is useful in providing answers to several critical questions that are important for the industry stakeholders such as manufacturers and partners, end users, etc., besides allowing them in strategizing investments and capitalizing on market opportunities. Key target audience are:

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Manufacturers of microwave digestion system

Raw material suppliers

Market research and consulting firms

Government bodies such as regulating authorities and policy makers

Organizations, forums and alliances related to microwave digestion system

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