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Solvents Market By Solvent Type (For Instrumental Analysis, For Research, For QC): Global Opportunity Analysis and Industry Forecast, 2024-2034

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Abstracts

The global solvents market was valued at $36.7 million in 2024, and is projected to reach $66 million by 2034, growing at a CAGR of 6% from 2024 to 2034.Solvents are chemical substances capable of dissolving, dispersing, or extracting other materials without altering their composition. They are essential in various industrial and commercial processes, acting as carriers, diluents, or cleaning agents. Solvents can be categorized based on their chemical structure, such as organic (carbon-based) or inorganic. Organic solvents include hydrocarbons, alcohols, ketones, esters, and ethers, while inorganic solvents are mainly water-based. The solvent industry globally plays a crucial role in manufacturing, construction, pharmaceuticals, and environmental applications, ensuring compliance with sustainability and safety standards.

The significant factor contributing to the market's expansion is the advancement in chemical research and development. Academic institutions and research organizations globally are actively engaged in innovative studies requiring high-quality solvents for various applications, including nuclear magnetic resonance (NMR) spectroscopy, mass spectrometry, and chromatography. The pursuit of new chemical entities and materials drives the need for solvents that offer consistency and reliability in experimental procedures.

Environmental considerations also play a pivotal role in shaping the solvents market. There is a growing emphasis on developing and utilizing bio-based and environmentally friendly solvents to minimize ecological impact. This shift is driven by stringent environmental regulations and increase in awareness of sustainable practices within the scientific community. The adoption of green solvents not only aligns with global sustainability goals but also enhances the safety and compliance of research and

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industrial processes.

Furthermore, technological advancements in analytical instrumentation have significantly increased the demand for high-purity solvents, as modern analytical techniques require exceptional precision and minimal interference to ensure accurate results. These advancements have led to the development of highly sophisticated instruments used in various fields, including pharmaceuticals, biotechnology, environmental analysis, and material sciences.

One key example is nuclear magnetic resonance (NMR) spectroscopy, where deuterated solvents play a crucial role. In NMR analysis, standard solvents containing hydrogen can interfere with the detection of hydrogen signals in the sample, leading to spectral distortion. Deuterated solvents, in which hydrogen atoms are replaced with deuterium, eliminate this interference, providing clearer and more interpretable spectra. As a result, the increasing reliance on NMR spectroscopy for structural elucidation, drug discovery, and quality control has driven the demand for such high-purity solvents.

Similarly, in high-performance liquid chromatography (HPLC) and gas chromatography (GC), the use of ultra-pure solvents is critical for achieving reproducible and reliable results. Impurities in solvents can lead to baseline noise, peak distortions, or reduced column efficiency, affecting the accuracy of analytical measurements. The advancement of ultra-high-performance liquid chromatography (UHPLC), which operates at higher pressures and requires even greater solvent purity, has further intensified this demand.

The solvents market globally faces several restraints that can impede its growth trajectory. One significant challenge is the stringent environmental regulations imposed by governmental bodies in both countries. These regulations aim to mitigate the environmental and health impacts associated with solvent use, particularly concerning volatile organic compounds (VOCs) that contribute to air pollution and pose health risks. Compliance with such regulations often necessitates reformulation of products, adoption of alternative solvents, or investment in emission control technologies, thereby increasing operational costs for manufacturers and potentially limiting market expansion.

On the contrary, the growing emphasis on environmental sustainability is significantly reshaping the solvents market, particularly with the increasing adoption of bio-based solvents. As global concerns over environmental degradation, carbon emissions, and resource depletion continue to rise, industries are actively seeking greener alternatives to conventional petrochemical-based solvents. This shift is being driven by stringent regulatory frameworks, such as environmental protection laws and sustainability guidelines, as well as heightened consumer awareness and demand for eco-friendly products. Bio-based solvents, which are derived from renewable resources like plant-based materials, agricultural waste, and other biodegradable sources, are emerging as a key solution to reducing the ecological footprint of industrial operations. Unlike their petrochemical counterparts, these solvents offer lower toxicity, reduced volatile organic compound (VOC) emissions, and enhanced biodegradability, making them an attractive choice across multiple applications.

The global solvents market is segmented on the basis of solvent type and region. On the basis of solvent type, the market is categorized into for instrumental analysis (Methanol, Acetonitrile, 2-Propanol, Chloroform, Dichloromethane, and Acetone), for research (Dimethyl Sulfoxide, Ethyl Alcohol, Chloroform, Methanol, 2-Propanol, and Tetrahydrofuran), and for QC (Ethanol, Acetone, Toluene, 2-Propanol, Isobutyl Methyl Ketone, Methanol, and Tetrahydrofuran). Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The major prominent players operating in the global solvents market include Honeywell International Inc, ChemSupply Australia, Thermo Fisher Scientific Inc., Westlab Pty. Ltd., Rowe Scientific Pty Ltd., ACE Chemical Company, Australian Scientific Pty Ltd., Agilent, Shimadzu Corporation, and Research Solutions Group, Inc.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the global solvents market analysis from 2024 to 2034 to identify the prevailing global solvents market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the global solvents market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global global solvents market trends, key players, market segments, application areas, and market growth strategies.

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Analysis of raw material in a product (by %)

Manufacturing Capacity

Product Life Cycles

Upcoming/New Entrant by Regions

Technology Trend Analysis

Go To Market Strategy

New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Strategic Recommedations

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Average Selling Price Analysis / Price Point Analysis

Historic market data

Import Export Analysis/Data

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

By Solvent Type

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For Instrumental Analysis

Type

Methanol

Acetonitrile

2-Propanol

Chloroform

Dichloromethane

Acetone

For Research

Type

Dimethyl Sulfoxide

Ethyl Alcohol

Chloroform

Methanol

2-Propanol

Tetrahydrofuran

For QC

Type

Ethanol

Acetone

Toluene

2-Propanol

Isobutyl Methyl Ketone

Methanol

Tetrahydrofuran

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

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- India
- Japan
- South Korea
- Australia
- Rest of Asia-Pacific

LAMEA

- Brazil
- Saudi Arabia
- South Africa
- Rest of LAMEA

Key Market Players

- Agilent Technologies Inc.
- Shimadzu Corporation
- Thermo Fisher Scientific Inc.
- ROWE SCIENTIFIC PTY LTD
- AUSTRALIAN SCIENTIFIC PTY LTD
- Research Solutions Group, Inc.
- WESTLAB PTY. LTD.
- Honeywell International Inc.

ACE CHEMICAL COMPANY

CHEMSUPPLY AUSTRALIA

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Contents

CHAPTER 4: GLOBAL SOLVENTS MARKET, BY SOLVENT TYPE

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CHAPTER 5: GLOBAL SOLVENTS MARKET, BY REGION

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CHAPTER 6: COMPETITIVE LANDSCAPE

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CHAPTER 7: COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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