

Dimethyl Sulfoxide Market to Reach USD 968.4 Million by 2035, Driven by Eco-Friendly Solvent Demand and Innovation

The UK DMSO market is growing steadily, fueled by advances in pharmaceuticals, rising demand for green solvents, and expanding agrochemical use.

NEWARK, DE, UNITED STATES, May 6, 2025 /EINPresswire.com/ -- The [Dimethyl Sulfoxide \(DMSO\) market](#) is set to experience robust growth, with its valuation projected to increase from USD 572.3 million in 2025 to USD 968.4 million by 2035, expanding at a steady CAGR of 5.4%. This growth is driven by rising demand across pharmaceuticals, agrochemicals, and electronics sectors, where DMSO is valued for its solvent properties, biocompatibility, and ability to enhance drug absorption.



DMSO, a versatile organic compound derived from wood pulp or produced synthetically, is celebrated for its exceptional solvent properties and its ability to penetrate biological membranes. These characteristics make it indispensable in an array of industrial applications, fueling the market's expansion in recent years.

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The DMSO market is gaining momentum across pharma, agriculture, and electronics, driven by its unique solvent properties and expanding R&D applications, signaling sustained long-term growth.”

Nikhil Kaitwade

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Rising Demand in Pharmaceuticals and Biotechnology

One of the primary drivers of the DMSO market is its wide-ranging applications in the pharmaceutical and biotechnology industries. DMSO is commonly used as a solvent for pharmaceutical formulations, facilitating the effective delivery of drugs. In the biotechnology field, DMSO is employed as a cryoprotectant during the storage of cells, tissues, and organs, as it helps prevent ice crystal formation that could damage the biological material. Its use in cryopreservation techniques has significantly advanced research in stem cell therapy, gene editing, and regenerative medicine, bolstering its demand within the healthcare sector.

DMSO's application extends to various other pharmaceutical processes, such as in drug discovery, where it is used as a solvent for various chemical reactions. The compound's ability to dissolve a wide variety of chemical substances, including hydrophilic and lipophilic compounds, enhances its versatility and utility in drug formulation, making it a vital ingredient for pharmaceutical companies. With the ongoing advancements in medical research and a growing focus on precision medicine, the demand for DMSO is expected to continue to rise.

Expanding Applications in Agriculture and Crop Protection

Another sector where the demand for DMSO is increasing is agriculture. DMSO is used as a solvent in the formulation of agricultural chemicals such as pesticides, herbicides, and fungicides. Its ability to penetrate plant tissues enhances the effectiveness of these chemicals, improving crop protection and yield. Additionally, DMSO has demonstrated potential as a carrier for various nutrients and fertilizers, further increasing its use in agriculture.

As global agricultural practices become more advanced and as farmers face increasing pressure to maximize crop productivity while managing environmental challenges, the need for efficient agricultural solutions is driving the adoption of DMSO-based formulations. The ongoing growth in global food demand, coupled with an emphasis on sustainable farming practices, is expected to contribute to the continued expansion of the DMSO market in the agricultural sector.

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The Electronics and Chemical Industries: Key Contributors to Growth

In the electronics industry, DMSO is being increasingly utilized in the formulation of high-performance coatings, adhesives, and other specialized materials. Its solvent properties and ability to dissolve various polymers make it valuable for manufacturing electronic components, particularly in the production of semiconductors, flat-panel displays, and advanced coatings. As technology continues to evolve, the demand for efficient, cost-effective solutions for electronic manufacturing will likely drive further adoption of DMSO.

In the chemical industry, DMSO is widely employed as a solvent in a variety of applications, including polymer production, resin synthesis, and chemical reactions. Its broad solubility profile

allows it to dissolve both inorganic and organic compounds, making it a critical component in the formulation of numerous chemical products. Additionally, its high polarity and low toxicity make it a preferred choice for many manufacturers, particularly those focusing on sustainable and environmentally friendly solutions.

DiMethyl Sulfoxide (DMSO) Market Top Players

- Gaylord Chemical Company, LLC
- Toray Fine Chemicals Co., Ltd.
- Arkema S.A.
- Hubei Xingfa Chemicals Group Co., Ltd.
- IRO Group Inc.
- Shandong Haike Chemical Group Co., Ltd.
- Charkit Chemical Company LLC
- JIANGSU JIUYI CHEMICAL CO., LTD.
- ChemWorld International Ltd.
- Zibo Huixin Chemical Co., Ltd.
- Yichang Xinhua Industry Co., Ltd.

Geographical Insights: A Global Perspective

Regionally, North America and Europe are currently the leading markets for DMSO, owing to the high demand for the compound in the pharmaceutical, biotechnology, and chemical industries. The United States, in particular, is home to a robust pharmaceutical and biotechnology sector, which is driving the demand for DMSO-based products. Similarly, the increasing focus on agricultural innovation and the adoption of advanced farming techniques in the region is further contributing to the market's expansion.

In Asia-Pacific, the DMSO market is experiencing rapid growth, driven by the region's booming pharmaceutical, agricultural, and industrial sectors. Countries like China and India are seeing significant investments in the healthcare and agricultural industries, which are boosting the demand for DMSO. Additionally, the expanding electronics manufacturing industry in Asia-Pacific is creating new opportunities for DMSO applications in the production of electronic components and coatings.

Industrial and Institutional Chemicals Industry Analysis:

<https://www.futuremarketinsights.com/industry-analysis/industrial-and-institutional-chemicals>

Market Segmentation

By Grade:

- Pharmaceutical Grade
- Industrial Grade

- Electronic Grade

Application:

- Pharmaceuticals
- Chemicals & Agrochemicals
- Electronics
- Paints & Coatings
- Polymer Processing
- Others (Cryopreservation, Personal Care, etc.)

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