

## **High Purity Sulfuric Acid - Company Evaluation Report, 2025**

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### **Report description:**

The High-Purity Sulfuric Acid Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for High-Purity Sulfuric Acid. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 100 companies, of which the Top 13 High-Purity Sulfuric Acid Companies were categorized and recognized as quadrant leaders.

High-purity sulfuric acid ( $H_2SO_4$ ) is an ultra-refined chemical compound with purity levels typically exceeding 99%, containing minimal metal and non-metal impurities. Unlike standard grades, it is engineered for precision-critical processes where even trace contaminants can compromise product integrity. It is mainly categorized into electronic-grade (used in semiconductor and electronics fabrication) and ultra-pure-grade (used in pharmaceutical and high-tech chemical synthesis).

The production of high-purity sulfuric acid builds on the traditional contact process-where sulfur dioxide ( $SO_2$ ) is oxidized to sulfur trioxide ( $SO_3$ ) over a vanadium pentoxide ( $V_2O_5$ ) catalyst and absorbed in water to form  $H_2SO_4$ -but includes advanced purification steps like distillation, filtration, and chemical treatments to eliminate trace contaminants.

The 360 Quadrant maps the High-Purity Sulfuric Acid companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the High-Purity Sulfuric Acid quadrant. The top criteria for product footprint evaluation included By GRADE (PPB, PPT), By APPLICATION (Cleaning, Etching, Other Applications), and By END-USE INDUSTRY (Semiconductor & Electronics, Pharmaceutical, Other End-Use Industries).

### **Key Players**

Key players in the High-Purity Sulfuric Acid market include major global corporations and specialized innovators such as Sumitomo Chemical Co., Ltd., Basf, Kanto Kagaku, Ls Mnm Inc., Chemtrade Logistics, Fujifilm Wako Pure Chemical Corporation, Pvs Chemicals, Koreazinc, Lanxess, Grillo-werke Ag, Huizhou Bailihong Holdings Co., Ltd., Avantor, Inc., and Merck KgaA. These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

### **Top 3 Companies**

BASF

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BASF is a global leader in the chemical industry, renowned for its extensive product portfolio and innovative solutions. The company has significantly expanded its high-purity sulfuric acid production, especially for the semiconductor industry. Through strategic partnerships, such as with Zhejiang Jiahua Energy Chemical Industry in China, BASF has enhanced its production capabilities, which has more than doubled its supply capacity to meet the global demand from electronic manufacturers.

Sumitomo Chemical Co., Ltd.

Headquartered in Japan, Sumitomo Chemical focuses on addressing environmental challenges while enhancing agricultural production. The company recently expanded its high-purity chemical manufacturing capabilities in its Ehime Works, doubling its sulfuric acid capacity. This expansion is critical for meeting the demands of the semiconductor sector, which necessitates high-purity chemicals. Sumitomo's acquisition of US-based Saconix LLC has bolstered its North American supply chain, enhancing its market presence.

FUJIFILM Wako Pure Chemical Corporation

FUJIFILM has positioned itself as a key player by providing highly purified chemicals tailored for the semiconductor industry. The company's acquisition of KMG Chemicals has boosted its capabilities, allowing it to offer sulfuric acid with exceptional purity. This acquisition has strengthened its market position by enhancing production capabilities and broadening its reach within the industry. FUJIFILM's focus remains on innovation in product quality and customer-centric solutions.

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