

Global 1,3-Propanesulfonic Acid Lactone Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 1,3-Propanesulfonic Acid Lactone market size was valued at US\$ 102 million in 2025 and is forecast to a readjusted size of US\$ 156 million by 2032 with a CAGR of 6.5% during review period.

1,3-Propanesulfonic Acid Lactone is an organic sulfur compound, a colorless liquid or white to light yellow crystals, soluble in chloroform (a little), methanol (a little), and slightly soluble in water. It is an important additive for lithium-ion battery electrolytes, which can form an interface film (SEI film) on the surface of the negative electrode during the initial charge and discharge, effectively inhibiting the reaction between the electrolyte and graphite, and improving the cycle life and storage stability of the battery. As an intermediate in organic synthesis, its derivatives can improve the surface properties of substances and are widely used in the field of pharmaceuticals and chemicals.

Upstream materials primarily include allyl alcohol, sodium bisulfite, sodium sulfite, 3-chloro-1-propanol, hydrochloric acid, dehydrating agents, and rectification solvents. The prevailing synthesis strategy involves first forming 3-hydroxypropanesulfonic acid (or its salt), followed by acidification, dehydration-cyclization, and rectification to obtain PS; alternatively, a reaction route utilizing 3-chloro-1-propanol and sodium sulfite may be employed. Given the stringent requirements for battery-grade products regarding moisture content, acid value, metal impurities, and color, critical processing steps include post-synthesis rectification, dehydration, impurity control, and hermetic packaging.

Global sales volume is projected to reach approximately 11,000 metric tons in 2025,

with an average global market price of around \$9,000 per metric ton; the gross profit margin for major industry players typically ranges from 28% to 35%.

The prosperity of the 1,3-propane sultone industry is primarily driven by the demand for lithium-ion battery electrolyte additives. As an additive that facilitates the formation of the solid electrolyte interphase (SEI) on the anode, it enhances cycle life, interfacial stability, and safety performance, thereby maintaining steady demand in electrolyte formulations for power, energy storage, and consumer batteries. Key industry drivers include the growth of global battery shipments, the increasing sophistication of electrolyte formulations, rising demand for interfacial stabilizers in high-nickel cathode and silicon-carbon anode systems, and capacity expansion by Chinese enterprises in the electrolyte additive sector. Battery-grade products are subject to stringent requirements regarding moisture content, acid value, metal ion levels, and color, and involve lengthy customer validation cycles; future growth will stem largely from the increased penetration of high-end electrolyte formulations and the rising concentration of the domestic supply chain.

This report is a detailed and comprehensive analysis for global 1,3-Propanesulfonic Acid Lactone market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 1,3-Propanesulfonic Acid Lactone market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 1,3-Propanesulfonic Acid Lactone market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 1,3-Propanesulfonic Acid Lactone market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 1,3-Propanesulfonic Acid Lactone market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 1,3-Propanesulfonic Acid Lactone

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 1,3-Propanesulfonic Acid Lactone market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hopax Fine Chemicals, Wuhan Jadechem, Shinghwa Advanced Material Group, Shandong Genyuan New Materials, handong Yonghao New Materials, Wuhan Pinestone Technology, Suzhou Cheerchem Advanced Material, BroaHony, Jiangsu Hicomer New Material, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

1,3-Propanesulfonic Acid Lactone market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Purity

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