

Global Lewis Acid Electrolyte Additives Market Growth 2026-2032

<https://marketpublishers.com/r/GDDF7FD38289EN.html>

Date: July 2026

Pages: 87

Price: US\$ 3,660.00 (Single User License)

ID: GDDF7FD38289EN

Abstracts

The global Lewis Acid Electrolyte Additives market size is predicted to grow from US\$ 17.61 million in 2025 to US\$ 70.12 million in 2032; it is expected to grow at a CAGR of 19.2% from 2026 to 2032.

Lewis acid electrolyte additives are functional electrolyte additives with electron-pair accepting capability. They are introduced into liquid, gel or polymer electrolytes to coordinate with anions, fluoride species, oxide species, solvent molecules or interfacial by-products, thereby modifying salt dissociation, ion transport, solvation structure, SEI/CEI formation, interfacial impedance, thermal stability and high-voltage cycling performance. Typical chemistries include boron-based Lewis acids, borate esters, borane derivatives, aluminum-based Lewis acids and phosphorus-containing Lewis acid structures. In battery research, boron-based anion receptors such as tris(pentafluorophenyl)borane have been widely studied as electrolyte additives because the electron-deficient boron center can interact with anions or Lewis-basic species.

Based on our research, Lewis acid electrolyte additives are best understood as electrolyte interfacial chemistry and solvation-structure modifiers, rather than conventional bulk electrolyte additives. Their core value comes from the electron-pair accepting capability of the Lewis acid center, which allows them to interact with anions, fluoride species, oxide species, solvent molecules or interfacial by-products in the electrolyte. Through these interactions, they can influence salt dissociation, Li⁺ transport, SEI/CEI formation, interfacial impedance and high-voltage stability. In this sense, Lewis acid additives act more like 'formulation amplifiers': they are typically used at low dosage levels, but can have a disproportionate impact on cycling performance, especially in high-voltage cathodes, silicon anodes, lithium metal systems

and high-temperature electrolyte environments. From a product-route perspective, boron-based Lewis acid additives represent the clearest and most technically established direction. Molecules such as tris(pentafluorophenyl)borane, borate esters and other boron-containing anion receptors use an electron-deficient boron center to coordinate with anions or Lewis-basic species, thereby modifying the ionic environment and interfacial reaction pathway. BF₃ complexes should be viewed as a related but somewhat different branch, with potential functions in solubility enhancement, fluoride capture and interface regulation. Aluminum- and phosphorus-containing Lewis acid additives also appear in research and patent literature, but their commercialization visibility is generally lower than that of boron-based systems. As a result, boron-centered Lewis acid chemistry is likely to remain the most important technical pathway in the near term. From the competitive landscape perspective, this market should not be analyzed simply by ranking electrolyte additive companies by revenue. Most Lewis acid additives are unlikely to be sold as transparent, high-volume commodity products under publicly disclosed product names. Instead, they are more likely to be embedded inside customized electrolyte formulations developed by electrolyte suppliers, battery manufacturers or specialty chemical companies. The key competitive capabilities are therefore not only molecular synthesis, but also battery-grade purity control, moisture and impurity management, formulation compatibility, electrochemical validation and the ability to co-develop additives with specific cathode, anode and electrolyte systems. Electrolyte leaders and specialty boron / fluorine chemistry suppliers are therefore better positioned than ordinary laboratory reagent distributors. From the demand perspective, Lewis acid electrolyte additives are unlikely to become a mainstream bulk additive category in the short term. Their opportunity lies in high-performance and problem-specific battery systems where conventional additive packages are insufficient. Key target applications include high-nickel and high-voltage cathodes, silicon-carbon anodes, lithium metal batteries, lithium-sulfur systems, lithium-oxygen systems, polymer electrolytes and special lithium-salt solubilization scenarios. In these applications, Lewis acid additives may help address persistent pain points such as unstable interphases, excessive impedance growth, fluoride-related side reactions, poor salt dissociation or difficult solubility of functional salts. Looking forward, Lewis acid electrolyte additives should be viewed as a small-scale but high-technical-leverage specialty segment within the broader electrolyte additive market. The market size will remain much smaller than mature additives such as VC, FEC, DTD or LiPOF, but the technology value could be meaningful in next-generation battery chemistries. Commercialization will depend on whether these additives can demonstrate stable performance benefits under practical cell conditions, acceptable cost, low impurity levels, long storage stability, gas-generation control and compatibility with existing electrolyte manufacturing processes. If validated in high-nickel fast-

charging, silicon-anode or lithium-metal systems, the category could move from research and patent-driven development into early commercial adoption; if conventional additive combinations continue to meet performance and cost requirements, adoption may remain limited to niche formulations.

LP Information, Inc. (LPI) ' newest research report, the "Lewis Acid Electrolyte Additives Industry Forecast" looks at past sales and reviews total world Lewis Acid Electrolyte Additives sales in 2025, providing a comprehensive analysis by region and market sector of projected Lewis Acid Electrolyte Additives sales for 2026 through 2032. With Lewis Acid Electrolyte Additives sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Lewis Acid Electrolyte Additives industry.

This Insight Report provides a comprehensive analysis of the global Lewis Acid Electrolyte Additives landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Lewis Acid Electrolyte Additives portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Lewis Acid Electrolyte Additives market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lewis Acid Electrolyte Additives and breaks down the forecast by Lewis Acid Center, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Lewis Acid Electrolyte Additives.

This report presents a comprehensive overview, market shares, and growth opportunities of Lewis Acid Electrolyte Additives market by product type, application, key manufacturers and key regions and countries.

Segmentation by Lewis Acid Center:

Boron-based Lewis Acid Additives

Aluminum-based Lewis Acid Additives

Phosphorus-containing Lewis Acid Additives

Segmentation by Functional Mechanism:

Anion Receptor Additives

Solubility-enhancing Additives

SEI-forming Additives

CEI-forming Additives

HF / Fluoride Scavenging Additives

Solvation-structure Modifiers

Segmentation by Target Electrode Interface:

Anode-interface Additives

Cathode-interface Additives

Dual-interface Additives

Segmentation by Application:

High-voltage Lithium-ion Batteries

Silicon-anode Lithium-ion Batteries

Fast-charging Lithium-ion Batteries

High-temperature Lithium-ion Batteries

Low-temperature Lithium-ion Batteries

Lithium?Sulfur Batteries

Lithium?Oxygen Batteries

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Shenzhen Capchem Technology Co., Ltd.

Guangzhou Tinci Materials Technology Co., Ltd.

Central Glass Co., Ltd.

Soulbrain Co., Ltd.

Solvay S.A.

Merck

TCI Chemicals

Thermo Fisher

Avantor

Key Questions Addressed in this Report

What is the 10-year outlook for the global Lewis Acid Electrolyte Additives market?

What factors are driving Lewis Acid Electrolyte Additives market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Lewis Acid Electrolyte Additives market opportunities vary by end market size?

How does Lewis Acid Electrolyte Additives break out by Lewis Acid Center, by Application?

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