

Global TEMABF? Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G26F0D73FE50EN.html>

Date: August 2026

Pages: 93

Price: US\$ 4,480.00 (Single User License)

ID: G26F0D73FE50EN

Abstracts

The global TEMABF? market size is expected to reach \$ 14.70 million by 2032, rising at a market growth of 7.6% CAGR during the forecast period (2026-2032).

Triethylmethylammonium tetrafluoroborate, commonly abbreviated as TEMA-BF? or Et?MeNBF?, is an organic quaternary-ammonium tetrafluoroborate electrolyte salt. It is mainly used as a supporting electrolyte in non-aqueous electrochemical systems, especially electric double-layer capacitors, supercapacitors, lithium/sodium ion capacitors, electrode testing and related carbon-electrode studies. Unlike room-temperature ionic liquids, TEMA-BF? is typically a solid salt and is usually used as a solute in acetonitrile, propylene carbonate or other non-aqueous solvents. Research on EDLCs has compared TEMA-BF?-based electrolytes with TEA-BF? and imidazolium BF? systems, and PubMed summarizes one study where better TEMABF? performance versus TEABF? was attributed to the smaller TEMA? size and better mobility in nanopores.

TEMABF?, or triethylmethylammonium tetrafluoroborate, is best viewed as a specialty quaternary ammonium electrolyte salt rather than a bulk chemical. Its main relevance lies in non-aqueous electrolytes, electrochemical double-layer capacitors, supercapacitors, and advanced electrochemical research systems. Compared with conventional TEABF?, the asymmetric TEMA? cation can offer favorable solubility and ion-size characteristics, which may improve electrolyte accessibility within porous carbon electrodes and support better capacitor performance in selected systems. A 1997 electrochemical capacitor study specifically described Et?MeNBF? as a highly soluble supporting electrolyte salt, while later literature compares TEMA BF? with TEA BF? in non-aqueous EDLCs.

From an application perspective, TEMA-BF₄ is mainly relevant to supercapacitor electrolytes, lithium/sodium ion capacitor electrolytes, electrochemical testing and electrode research, battery electrolyte additive or supporting-salt research, organic synthesis/catalysis/phase-transfer uses, and specialty materials research. The most important demand area is supercapacitors and non-aqueous electrochemistry, where the size of the TEMA⁺ cation, the BF₄⁻ anion and solvent compatibility affect ion transport, double-layer formation and rate performance in porous carbon electrodes. A PubMed-indexed EDLC study reports that TEMABF₄ outperformed TEABF₄ in certain carbon electrodes, with the advantage attributed to the smaller TEMA⁺ ion and better mobility in nanopores.

From a product-form perspective, TEMA-BF₄ is usually not used as a neat liquid. It is typically used as an electrolyte salt dissolved in acetonitrile, propylene carbonate or other non-aqueous solvents to form systems such as TEMA-BF₄/ACN or TEMA-BF₄/PC. Therefore, market sizing should count the TEMA-BF₄ salt itself and the salt value embedded in electrolyte formulations, not the full value of acetonitrile, propylene carbonate, finished electrolyte blends or supercapacitor devices. Supplier pages such as AK Scientific and Chem-Impex also describe the product as a solid or powder/lump material, not a room-temperature liquid.

From a technical standpoint, the key differentiators are high purity, low moisture, low free acid, low metal impurities, low halide residues, good solubility, conductivity and electrochemical window. For supercapacitor customers, moisture and free acid are especially important, because BF₄⁻-based systems may create corrosion, side reactions or lifetime issues under water- or acid-sensitive conditions. Capacitor-grade or electrochemical-grade TEMA-BF₄ therefore cannot be evaluated only by assay; buyers also need data on Karl Fischer moisture, free HBF₄/free acid, chloride/bromide/iodide residues, sulfate, sodium, potassium, iron, lead and other trace impurities.

Overall, TEMA-BF₄ is a small-volume, high-purity, application-specific electrolyte salt for supercapacitors and non-aqueous electrochemistry. Growth will depend on high-power EDLCs, lithium/sodium ion capacitors, low-resistance electrolytes, wide-temperature electrolyte systems and optimization of porous carbon electrodes. Key constraints include BF₄⁻ hydrolysis/free-acid control, safety considerations for acetonitrile-based systems, substitution competition from TEA-BF₄, SBP-BF₄ and EMIM-BF₄, and long customer qualification cycles.

This report studies the global TEMABF₄ production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for TEMABF? and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of TEMABF? that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global TEMABF? total production and demand, 2021-2032, (Tons)

Global TEMABF? total production value, 2021-2032, (USD Million)

Global TEMABF? production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global TEMABF? consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: TEMABF? domestic production, consumption, key domestic manufacturers and share

Global TEMABF? production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global TEMABF? production by Electrolyte System, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global TEMABF? production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global TEMABF? market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include TCI, Apollo Scientific, Solvionic, IoLiTec, Zhejiang Zhongxin Fluoride Materials Co., Ltd., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World TEMABF? market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by

manufacturer, by Electrolyte System, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global TEMABF? Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global TEMABF? Market, Segmentation by Electrolyte System:

Acetonitrile-based Electrolytes

Propylene Carbonate-based Electrolytes

Mixed Carbonate Electrolytes

Global TEMABF? Market, Segmentation by Energy Storage Device Type:

Electric Double-layer Capacitors

Lithium-ion Capacitors

Sodium-ion Capacitors

Global TEMABF? Market, Segmentation by Salt Concentration:

Low-concentration Electrolytes

Medium-concentration Electrolytes

High-concentration Electrolytes

Global TEMABF? Market, Segmentation by Application:

Supercapacitor Electrolytes

Lithium / Sodium Ion Capacitor Electrolytes

Electrochemical Testing and Electrode Research

Battery Electrolyte Additive / Supporting Salt Research

Organic Synthesis / Catalysis / Phase-transfer Uses

Companies Profiled:

TCI

Apollo Scientific

Solvionic

IoLiTec

Zhejiang Zhongxin Fluoride Materials Co., Ltd.

Key Questions Answered:

1. How big is the global TEMABF? market?

2. What is the demand of the global TEMABF? market?
3. What is the year over year growth of the global TEMABF? market?
4. What is the production and production value of the global TEMABF? market?
5. Who are the key producers in the global TEMABF? market?
6. What are the growth factors driving the market demand?

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