

Global EMIM-TFSI 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 EMIM-TFSI market size was valued at US\$ 11.83 million in 2025 and is forecast to a readjusted size of US\$ 23.28 million by 2032 with a CAGR of 10.0% during review period.

1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide, commonly abbreviated as [EMIM][TFSI] or [EMIM][NTf₂], is a hydrophobic room-temperature ionic liquid composed of an 1-ethyl-3-methylimidazolium cation and a bis(trifluoromethylsulfonyl)imide anion. It is used as a high-performance ionic liquid for electrochemical electrolytes, battery and supercapacitor research, CO₂-soluble reaction media, electrodeposition, non-volatile solvents, lubricants/additives, antistatic systems and advanced materials R&D. TCI lists the product as a liquid with CAS 174899-82-2, purity above 98%, and the synonym EMIMTFSI; FUJIFILM Wako lists the same CAS and identifies FUJIFILM Wako Pure Chemical Corporation as manufacturer for its organic synthesis grade.

Based on our research, EMIM-TFSI should be modeled as a high-purity imidazolium TFSI ionic liquid, not as a generic solvent or the entire ionic-liquids market. It is a room-temperature ionic liquid composed of a 1-ethyl-3-methylimidazolium cation and a bis(trifluoromethylsulfonyl)imide anion. Its value proposition comes from low vapor pressure, high thermal stability, good ionic conductivity and a wide electrochemical window. Sigma-Aldrich describes [EMIM][N(Tf)₂] as a room-temperature ionic liquid and notes that it is useful as a non-aqueous solvent for electrochemical investigations because of these properties; the same source also notes its good CO₂ solubility.

From an application perspective, EMIM-TFSI is mainly relevant to battery and supercapacitor electrolytes, electrodeposition, electrochemical-interface studies, CO₂

capture and separation, green reaction media, ion gels, lubricants and functional-fluid additives. In battery development, it is usually not a one-for-one replacement for carbonate electrolytes; rather, it is used as a non-volatile, safer, high-temperature or wide-window electrolyte component. In supercapacitors and interface electrochemistry, it is often used as a stable model electrolyte or high-voltage electrolyte medium. IoLiTec's application structure also reflects this multi-application profile, covering electrolytes, functional fluids, additives, solvents, analytics and toxicity-related areas.

From a specification standpoint, competition is not mainly about whether a supplier can synthesize the molecule. The key differentiators are moisture content, free halides, metal impurities, residual imidazole, color, particles, batch consistency and electrochemical window. Proionic lists electronic-grade EMIM-TFSI at 99.9% quality, with specification indicators such as free halides 10 ppm, water

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