

Technical Data Sheet

Lithium Bis(trifluoromethanesulfonyl)imide, LiTFSI
Formula: $(CF_3SO_2)_2NLi$
Relative weight: 287.08
CAS NO.: 90076-65-6
Physical Chemical Properties: White crystal or powder, often simply referred to as LiTFSI, chemical formula $(CF_3SO_2)_2NLi$, formula weight 287.08, with its density 1.33 g/cm ³ , melting point 236 °C (457°F; 509K). It is highly soluble in water.
Applications: Commonly used as Li-ion source in electrolytes for Li-ion batteries as a safer alternative to work with or replace lithium hexafluorophosphate. It is made up of one Li cation and a bistriflimide anion. Because of its very high solubility in water (> 21 M), LiTFSI has been used as lithium salt in water-in-salt electrolytes for aqueous lithium-ion batteries.

Component		Lithium Bis(trifluoromethanesulfonyl)imide
(CF ₃ SO ₂) ₂ NLi Content (Min%)		99.90%
Impurity Content Max ppm	H ₂ O	200
	pH	6.0~9.0
	F ⁻	20
	Cl ⁻	15
	SO ₄ ²⁻	20
	Chroma (25% MEK) Hazen	30
	Turbidity (25% MEK) NTU	10
	Al	1
	Ca	5
	Cu	1
	Fe	2
	K ⁺	5
	Na ⁺	10
	Mg	1
	Ni	1
	Pb	1
	Si	5
	Zn	1
Packing: 5kg/HDPE bottle in Sealed aluminum pouch with inert gas inside.		