

Technical Data Sheet

Lithium Bis(fluorosulfonyl)imide, LiFSI
Formula: $\text{LiF}_2\text{NO}_4\text{S}_2$
Relative weight: 187.07
CAS NO.: 171611-11-3
Physical Chemical Properties: Often simply referred as LiFSI, formula $\text{LiF}_2\text{NO}_4\text{S}_2$, appears to be white powder, with its molecular weight 187.07, melting point 124-128°C (255-262.4°F). It is thermally stable up to 200 °C. It has good electrochemical stability and high conductivity. It exhibits far superior stability towards hydrolysis, better low temperature performance and more environmentally friendly than LiPF_6 .
Applications: LiFSI is a promising new electrolyte additive for power lithium ion batteries showing increased conductivity over LiPF_6 . Bis(fluorosulfonyl)imide has also been tested in next generation gel polymer electrolytes, as well as primary lithium battery electrolyte, with improved safety properties. It can be used as a polymerization catalyst and also as an antistatic agent in the industrial field.

Component		Lithium Bis(trifluoromethanesulfonyl)imide
$\text{LiF}_2\text{NO}_4\text{S}_2$ Content (Min%)		99.90%
Impurity Content Max ppm	H_2O	100
	HF	50
	Insoluble matter	500
	Cl^-	5
	SO_4^{2-}	20
	F-	50
	Na	10
	K	5
	Ca	5
	Fe	2
	Pb	2
	Cu	2
	Mg	2
	Cr	2
	Ni	2
	Zn	2
Packing: 5kg/HDPE Bottle.		