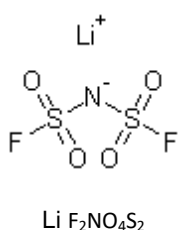


LiFSI based Next Generation Electrolytes



LiFSI as a promising salt for Lithium-ion Batteries !



- ✓ Thermally stable up to 200 °C
- ✓ Highest conductivity: LiFSI > LiPF₆ > LiTFSI > LiClO₄ > LiBF₄
- ✓ High potential stability (3.0–5.0V vs. Li⁺/Li)

Reference:

Hong-Bo Han et Al., "Lithium bis(fluorosulfonyl)imide (LiFSI) as conducting salt for nonaqueous liquid electrolytes for lithium-ion batteries: Physicochemical and electrochemical properties", Journal of Power Sources, 2011, 196, 3623.

Ionic Liquids based Electrolytes:

REF.	FORMULATIONS	Packaging
E260	LiFSI:PYR13FSI (1:9 mol ratio) – 99.9% H ₂ O < 20ppm – packed under argon	50g
		500g
		1kg
E261	LiFSI:PYR14FSI (1:9 mol ratio) – 99.9% H ₂ O < 20ppm – packed under argon	50g
		500g
		1kg
E262	LiFSI:EmimFSI (1:9 mol ratio) – 99.9% H ₂ O < 20ppm – packed under argon	50g
		500g
		1kg

REF.	FORMULATIONS	Packaging
E266	LiFSI:PYR13FSI (2:3 mol ratio) – 99.9% H ₂ O < 20ppm – packed under argon	50g
		500g
		1kg
E267	LiFSI:PYR14FSI (2:3 mol ratio) – 99.9% H ₂ O < 20ppm – packed under argon	50g
		500g
		1kg
E268	LiFSI:EmimFSI (2:3 mol ratio) – 99.9% H ₂ O < 20ppm – packed under argon	50g
		500g
		1kg

Reference:

G. B. Appetecchi, “Ionic Liquid-Based Electrolytes for High Energy, Safer Lithium Batteries”, In Ionic Liquids: Science and Applications; Visser, A., et al.; ACS Symposium Series; ACS: Washington, DC, 2012.

Organic Solvents based Electrolytes:

REF.	FORMULATIONS	Packaging
E265	1M LiFSI in EC:DMC (1:1 vol.%) – 99.9% H ₂ O < 20ppm – packed under argon	50ml
		500ml
		1L
E271	5M LiFSI in DMC – 99.9% H ₂ O < 20ppm – packed under argon	50ml
		500ml
		1L

Reference:

Wang et al, “Superconcentrated electrolytes for a high-voltage lithium-ion battery”, Nature Communications, 2016, 7, 12032.

Membranes Formulation for Batteries:

REF.	FORMULATIONS	Packaging
EM022	[LiFSI:PYR14FSI (1:9 mol) + 58wt.% PolyDDAFSI]:Acetonitrile (1:1 wt%) H ₂ O < 20ppm – packed under argon	50g
		500g
		1kg
EM028	[LiFSI:PYR14FSI (2:3 mol) + 58wt.% PolyDDAFSI]:Acetonitrile (1:1 wt%) H ₂ O < 20ppm – packed under argon	50g
		500g
		1kg

Customised Formulations: According our customers’ needs, Solvionic formulates ionic liquids based electrolytes, conventional electrolytes or mixtures of both, including additives upon requests.

For more information please contact us: Sales@solvionic.com

BULK packaging or specific needs, please contact us.