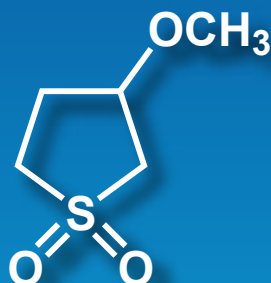


New

MATERIALS



High Purity and Low Water Content Sulfolane-type Electrolyte Solvent MESL



MESL
5g / 25g
[M3380]

Advantages

- Excellent chemical and physical properties, Thermal stability
- Good electrochemical properties
- Enable to prepare 1 mol/L LiTFSI solution
- Purity >99.0%, Water content <1000ppm

Physical Properties

	Melting Point	Heat Generation Temperature	Vapor Pressure (373K)	Potential Window [‡]	Electric Resistance [‡] (-20°C)	Electric Resistance [‡] (20°C)
MESL [M3380]	-39 °C	449 °C	7.2 Pa	6.9 V	8521 Ω·cm	221 Ω·cm
Sulfolane [T0115]	29 °C	210 °C	36.4 Pa	6.4 V	-(Solidified)	50 Ω·cm

[‡] 1 mol/L LiPF₆ solution (Data taken from PCT Inter. Appli. WO2013/145890A)

References

- 1) Electroconduction of Lithium Perchlorate Solutions in Sulfoxes
V. S. Kolosnitsyn, N. V. Slobodchikova, L. V. Sheina, *Russ. J. Electrochem.* **2001**, 37, 599.
DOI: <https://doi.org/10.1023/A:1016666517462>
- 2) Cycling a Sulfur Electrode: Effect of Physicochemical Properties of Electrolyte Systems
V. S. Kolosnitsyn, E. V. Karaseva, D. Y. Seung, M. D. Cho, *Russ. J. Electrochem.* **2003**, 39, 1089.
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Related Products

Sulfonyl-type Electrolyte Solvents

Sulfolane	25g / 500g [T0115]
3-Methylsulfolane	25g / 250g [M0436]
Dimethyl Sulfone	25g / 500g [M1239]
Isopropyl Methyl Sulfone	5g / 25g [I0484]
Dipropyl Sulfone	25g / 500g [E0076]
Dimethyl Sulfit	25g / 500g [D0264]
Ethylene Sulfite	5g / 25g [D2977]
1,2-Propylene Sulfite	5g / 25g [M2471]
Ethylene Sulfate	5g / 25g [D2830]
1,3-Propanesultone	25g / 100g / 500g [P0324]
1,4-Butanesultone	25g / 250g [B0136]

Lithium Electrolytes

LiFSI (= Lithium Bis(fluorosulfonyl)imide)	5g / 25g [L0281]
LiPF ₆ (= Lithium Hexafluorophosphate)	25g / 100g [L0146]
LiTFSI (= Lithium Bis(trifluoromethanesulfonyl)imide)	5g / 25g / 250g [B2542]

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Tel : 800-988-0390 / 021-67121386
Fax : 021-6712-1385
E-mail : Sales-CN@TCIchemicals.com

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Tel : +81 (0)3-5640-8878
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