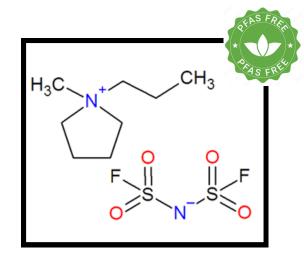


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Ionic liquids: The key to next-gen energy storage solution

Discover how PYR13FSI, a high-performance ionic liquid, pushes the boundaries of safety, conductivity, and innovation across next-generation battery technologies.



Advantages of N-Propyl-N-methylpyrrolidinium bis(fluorosulfonyl)imide (PYR13FSI):

- Wide electrochemical stability (>5 V)
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- High flash point > 250°C
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ZOOM ON: PYR13FSI, ENABLING SAFER AND SUSTAINABLE BATTERIES



(1) Its wide electrochemical stability enables the use of highvoltage cathode materials such as LNMO

Paving the way for next gen (Gen3) Li-ion batteries.

(2) PYR13FSI based electrolyte shows an excellent K-ion reversibility in graphite electrodes

Towards cost effective K-ion batteries.

(3) PYR13FSI combined with KFSI results in KF enriched SEI that suppresses dendrite formation on potassium anodes

Unlocking high-energy K-metal batteries.

(4) The localized high concentration electrolyte (LHCE) blends with PYR13FSI increase ionic mobility of Na⁺ and the stability of the SEI layer

—> Delivers high preformance at room temperature and low-temperature use of Na-S batteries.

Area of application: Aerospace, energy storage, IoT

applications

Product reference: PYR1333, CAS: [852620-97-4], click here

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NaFSI, CAS: [100669-96-3], click here KFSI, CAS: [14984-76-0], click here

Packaging: From 10g to 40 ton per year

(1) Lee, H. J. et al. Chem. Mater. 33, 1238-1248 (2021)

(2) Fiore, M. et al. Chem. Mater. 32. 7653-7661 (2020).

(3) Jeon, J. et al. Journal of Colloid and Interface Science 670, 617–625 (2024).

(4) Guo, D. et al. Adv Funct Materials 34, 2409494 (2024).

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