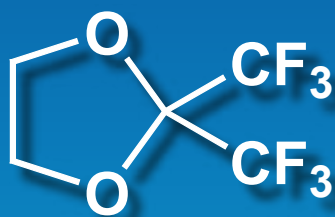


New

MATERIALS



2,2-Bis(trifluoromethyl)- 1,3-dioxolane for Battery Research



2,2-Bis(trifluoromethyl)-
1,3-dioxolane

5g / 25g

[B6911]

Advantages

- Stable against redox due to the fluorinated cyclic acetal moiety ¹⁾
- Ability to form a lithium fluoride-rich surface ¹⁾
- Forms solid electrolyte interphase (SEI) and cathode electrolyte interphase (CEI) to improve battery cycle stability and capacity ¹⁾

References

- 1) Fluorinated Cyclic Ether Diluent for High-Voltage Lithium Metal Batteries
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<https://doi.org/10.1021/acseenergylett.4c00481>
- 2) Application to Lithium Batteries of Ternary Solvent Electrolytes with Ethylene Carbonate – 1,2-Dimethoxyethane Mixture
Y. Sasaki, N. Yamazaki, M. Handa, *MRS Online Proceedings Library* **1997**, 496, 477.
<https://doi.org/10.1557/PROC-496-477>

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