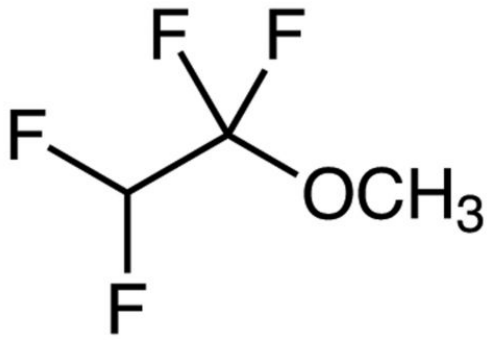
Product Data Sheet

Product Name: 1,1,2,2-Tetrafluoroethyl methyl ether
Cat. No.: GD21958

Chemical Properties

Cas. No.	425-88-7		
Formula	$CH_3OCF_2CHF_2$	M.Wt	132.06
Solubility		Storage	2-8°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

1,1,2,2-Tetrafluoroethyl methyl ether is a fluoromethyl ether compound, a colorless, transparent liquid, used as a special solvent in organic synthesis, especially suitable for reactions that require an inert environment (such as fluorine chemical transformations), and has good solubility for some polar and non-polar organic compounds[1, 2]. 1,1,2,2-Tetrafluoroethyl methyl ether can be used as a co-solvent for lithium-ion batteries[3, 4].

Caution: Product has not been fully validated for medical applications. For research use only.
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References:
[1] Zhao X, Fu Z, Zhang X, et al. More is better: high-entropy electrolyte design in rechargeable batteries[J]. Energy & Environmental Science, 2024, 17(7): 2406-2430.
[2] Leroux F, Jeschke P, Schlosser M. α-Fluorinated ethers, thioethers, and amines: anomerically biased species[J]. Chemical reviews, 2005, 105(3): 827-856.
[3] Wang R. Synthesis and application of a highly fluorinated ether molecule as an electrolyte co-solvent for enhanced performance rechargeable lithium batteries[D]. University of Birmingham, 2024.
[4] Ouyang D, Liu B, Wan X, et al. An all-fluorinated electrolyte with 1, 1, 2, 2-tetrafluoroethyl-2, 2, 3, 3-tetrafluoropropylether as co-solvent for lithium-ion cells with advanced electrochemical and safety properties at high voltage[J]. Journal of Power Sources, 2024, 615: 235095.

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