Free Shipping on MSE PRO Online Orders of $500 or More! U.S. Orders Only * Offer Excludes Hazmat Shipments *

4N (99.99%) Ethyl Methyl Carbonate EMC ($C_4H_8O_3$) for Battery Research

Ethyl Methyl Carbonate, EMC, ($C_4H_8O_3$) is a low-viscosity solvent produced through the esterification of chloroform-ate and ethanol. It features active, reactive groups such as methyl, ethyl and carbonyl, permitting reactions with alcohols, phenols, amines and esters for using in fine synthesis intermediates. It is widely used as electrolyte solvent for battery research.

Specification

Item	Value
Product Name	Ethyl Methyl Carbonate
Chemical Formula	$C_4H_8O_3$

Rewards

MSE PRO 4N (99.99%) Ethyl Methyl Carbonate EMC ($C_4H_8O_3$) for Battery Research

SKU: CM1039

$ 279.95

Weight

100g

Quantity

1

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Synonym(s)	• Carbonic Acid Ethyl Methyl Ester • Methyl Ethyl Carbonate • EMC
SKU#	• CM1039: 100g
CAS#	623-53-0

Molecular Weight	104.1 g/mol
Appearance	Colorless and transparent liquid
Purity	99.99%, 4N
Degree of Solubility in Water	46.8-47.1 g/L at 20 °C (68 °F)
Melting Point	-14.5°C (5.9°F)
Flash Point	29 °C (84 °F)
Boiling Point	107 °C (225 °F)
Density	1.006 g/mL at 25 °C (77 °F) (lit.)
Vapor Pressure	43 hPa at 24 °C (74.8 °F)
Storage Condition	2-8 °C (36-46 °F)

Shipping and handling: This material is classified as a hazmat and requires special packaging and shipping to comply with regulatory requirements. Please contact us for specific details with shipping and handling.

References

[1] Dielectric constants for quantum chemistry and Li-ion batteries: solvent blends of ethylene carbonate and ethyl methyl carbonate. *The Journal of Physical Chemistry C* 119.39 (2015): 22322-22330.

[2] Separation of azeotrope (ethanol and ethyl methyl carbonate) by different imidazolium-based ionic liquids: Ionic liquids interaction analysis and phase equilibrium measurements. *Journal of Molecular Liquids* 261 (2018): 89-95.

[3] How Ethyl Methyl Carbonate Assists Ethylene Carbonate in Co-Intercalating into Graphite Electrode with PF_6^-. *Journal of The Electrochemical Society* 166.12 (2019): A2654.

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