

# 2, 2-DIMETHOXY PROPANE



CAS Number: 77-76-9

Other Names: Acetone dimethyl acetal; 2, 2-Dimethoxypropane,  
(Acetone dimethyl acetal); 2-Methoxy-4-hydroxy-methylpyrimidine  
2, 2-dimethoxy propane; Dimethoxypropane.

Formula:  $C_5H_{12}O_2$

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## PRODUCT INTRODUCTION

2, 2-Dimethoxypropane (DMP) is a colorless transparent liquid with the smell of acetone. It is moderately soluble in water, soluble in benzene, carbon tetrachloride, ethyl ether, n-butane, and methanol. The product is stable and reactive with oxidizing agents, acids.

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## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A Clear Colorless Liquid
Content (G.C.)	99.60 %
Moisture (K.F.)	0.01 %

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## APPLICATIONS

- **DEHYDRATING AGENT** - In histology, DMP is considered to be more efficient than ethanol for the dehydration of animal tissue. Acidified 2, 2-dimethoxypropane (DMP) can be used as a dehydrating agent who causes rapid chemical dehydration of biologic samples for scanning electron microscopy.
- **PHARMA**-2,2-Dimethoxypropane is used as a pharmaceutical intermediate, including intermediates for synthesis of vitamin E, vitamin A and various carotenoids such as astaxanthin.
- **BATTERIES**- DMP can be considered as a desirable additive in electrolyte for lithium-ion batteries operating at high temperature, ca. 60 °C.
- The results of studies reveal that the cyclic life test and storage performance at high temperature in electrolyte with DMP additive was better than that in an electrolyte without additive.
- **AGROCHEMICALS**- 2, 2-Dimethoxypropane is a value intermediate for the production of insecticides and fungicides.
- **ANALYTICAL CHEMISTRY**- The well known reaction between 2, 2-dimethoxypropane and water allows for the conversion of an aqueous into an organic solution ready to be injected directly into a gas chromatographic-mass spectrometric (GC-MS) system. This method is proposed for the GC-MS analysis of aqueous solutions containing hydrocarbons, halogenated hydrocarbons and ethers.

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## PACKAGING OPTIONS

1. Drums

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