

TRIETHYL ORTHOFORMATE (TEOF)



CAS Number: 122-51-0

Other Names: Triethoxymethane; Aethon; Ethone; (diethoxymethoxy)ethane

Formula: $C_7H_{16}O_3$

PRODUCT INTRODUCTION

Triethyl orthoformate is an orthoester of formic acid with formula $C_7H_{16}O_3$. It appears as a clear, colorless liquid with a pungent odor. It is miscible with alcohols, acetone, ethers and chloroform. It is slightly miscible with water. It is widely used as chemical intermediate.

PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------|----------------------------------|
| Appearance | Colorless and Transparent Liquid |
| Color (APHA) | 10 |
| Purity | 99.6560 % |
| Ethanol | 0.1684 % |
| Ethyl Formate | 0.0975 % |
| Impurity | 0.0781 % |
| Specific Gravity (20 °C) | 0.893 °C |
| Moisture | 0.01 % |
| Boiling Point | 145-146 °C |

APPLICATIONS

- Triethyl orthoformate may be used to synthesize: Formyl ferrocene by reacting with ferrocene in the presence of aluminium chloride.
- Triethyl orthoformate is used in Bodroux-Chichibabin aldehyde synthesis to prepare an aldehyde with one carbon higher by reacting with Grignard reagent.
- It is also used in the electrophilic formulation of activated aromatic species such as phenol.

PACKAGING OPTIONS

Drums

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