

# TRIETHYL PHOSPHATE



CAS Number: 78-40-0

Other Names: Triethoxyphosphine oxide; Phosphoric acid triethyl ester;  
Ethyl phosphate; Tris(ethyl) phosphate;  
Trimethyl orthophosphate

Formula:  $C_6H_{15}O_4P$  or  $(C_2H_5)_3PO_4$

## PRODUCT INTRODUCTION

Triethyl phosphate is the triester of ethanol and phosphoric acid. It appears as a colorless, corrosive liquid. It slowly dissolves in water.

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless Transparent Liquid
Content %	99.70
Acidity mgKOH/g	0.041
Water Content (%)	0.039
Color (APHA)	10
Density at 20°C	1.07
Refractive Index	1.4055
Flash Point	127

## APPLICATIONS

- Triethyl phosphate participates in the thermal transformation of sodium acetate-2-C<sup>14</sup> to n-butyl acetate-2-C<sup>14</sup>.
- It is majorly used as a catalyst in the production of acetic anhydride by the ketene process, as a desensitizing agent for peroxides, and as a solvent and plasticizer for cellulose acetate.
- It also acts as chemical intermediate in preparing tetraethyl pyrophosphate (TEPP).

## PACKAGING OPTIONS

Drums

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