



Dongguan Baoxu Chemical Technology, Ltd.

P: +86-0769-22821082 Fax: 0769-22821083

Email: info@additivesforpolymer.com Web: www.additivesforpolymer.com

Room 1118 Caijin Business Building Nancheng Distinct Guangdong Province China

# Tris(2-chloroethyl) phosphate(TCEP)

## Introduction

TCEP is a halogenated phosphate ester flame retardant and plasticizer, commonly used in flame retardant paints with nitrocellulose and cellulose acetate as substrates, unsaturated polyesters, polyurethanes, acrylates, phenolic resins, etc. It can be used as a soft plasticized flame retardant for PVC.

Product name: Tris(2-chloroethyl) phosphate

Alias: Tris( $\beta$ -chloroethyl) phosphate; TCEP; tris(1-chloroethyl) phosphate

CAS No: 115-96-8

EINECS No.: 204-118-5

Molecular formula:  $C_6H_{12}Cl_3O_4P$

Molecular weight: 285.4898

## Physical and chemical characters

Appearance: colorless or light yellow oily transparent liquid

Refractive index (n<sub>20D</sub>): 1.4731

Boiling point: 194°C, flash point: 225°C

Freezing point: -64°C

Decomposition temperature: 240-280°C

Viscosity: 38-47cp (20°C)

Phosphorus content: 10.8%

Chlorine content: 37.3%

## Application

1. TCEP has excellent flame retardance, cold resistance, and UV resistance.
2. TCEP is widely used in chemical and blended fabrics and cellulose acetate is a fire retardant.

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## **Output**

300 tons/month

## **Packing, storage, and transportation:**

domestic sale: plastic drum,25kg/drum galvanization metal drum,200kg/drum, specification:560×890mm

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