

**FaRetar Flame Retardant Technology Co., Ltd.**

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Email: [sales01@faretar.com](mailto:sales01@faretar.com) Web site: <http://www.faretar.com>**FARETAR™ TCPP****Tris(1-chloro-2-propyl) phosphate****Product description**

FARETAR™ TCPP is a kind of flame retardant containing chlorine and phosphorus, which is mainly used in polyurethane foam materials.

Molecular Structure	The chemical structure shows a central phosphorus atom (P) double-bonded to an oxygen atom (O) and single-bonded to three oxygen atoms (O). Each of these three oxygen atoms is further bonded to a 1-chloro-2-propyl group, which consists of a three-carbon chain with a chlorine atom attached to the first carbon.
Chemical Name	Tris(1-chloro-2-propyl) phosphate
Formula	C <sub>9</sub> H <sub>18</sub> Cl <sub>3</sub> O <sub>4</sub> P
CAS Number	13674-84-5
Molecular Weight	327.57
Appearance	Colorless to yellowish transparent liquid
Density (25°C, g/cm <sup>3</sup> )	1.29

**Comparable grade**

Daihachi TMCPP

**Characteristics**

- Insoluble in water
- Theoretical chlorine content: 32.47%
- Theoretical phosphorus content: 9.46%

## Application

**FARETAR™ TCPP** is especially suitable for rigid polyurethane foam and flexible polyurethane foam. It is also suitable for low smoke foams, low brittleness isocyanate foams, soft molding foams, unsaturated polyester and phenolic resins.

## Specification

Item	Specification
Colour, APHA	$\leq 50$
Acid value, mg KOH/g	$\leq 0.07$
Moisture, wt, %	$\leq 0.07$
Density (25°C) ,g/cm <sup>3</sup>	$1.293 \pm 0.005$
Viscosity (25°C) ,mPa • s	65-72

\*Test method: Q/0700FRT 008-2019

## Packaging

250 kg in iron drum, 20-23mt in Isotank, or 1250 kg in IBC.

## Storage

Store the product in a cool, dry, well - ventilated area