



Product Data Sheet

CHEMPOL-PROPHOS (TRIS 2-CHLOROPROPYL PHOSPHATE –TCPP)

Description

Tris (2-Chloropropyl) Phosphate (TCPP) is a chlorinated phosphate ester primarily used as a **flame retardant and plasticizer**. It offers excellent compatibility with **polyurethane foams, thermoplastics, and coatings, improving fire resistance, viscosity stability, and processability**.

Typical Properties

Parameters	Specifications
CAS No.	13674-84-5
Molecular formula	C ₉ H ₁₈ Cl ₃ O ₄ P
Appearance:	Clear Light Yellow
Color	30 Hazen max
Density (25°C ,g/cm ³)	1.29 ± 0.03
Viscosity at 25 ° C mPa.s	70 ± 10
Refractive Index at 20 ° C	1.465 ± 0.005
Acid value (mg KOH/g)	0.08 Max
Water content (wt. %)	0.1% Max

Applications

- **Flexible & Rigid Polyurethane Foams** – Primary flame retardant.
- **PVC & Rubber Compounds** – Plasticizer and fire-retardant additive.
- **Coatings, Adhesives, Sealants** – Improves flame resistance and durability.
- **Textiles & Building Materials** – Used for FR formulations and surface coatings.

Compatibility

TCPP is compatible with polyols, PVC resins, chlorinated paraffins, and most plasticizers. It may separate slightly in highly polar systems — mixing before use is recommended.

Country of Origin : India

Packing : HDPE Drums / MS Drums / IBC Totes / ISO Tank

Storage : As recommended in the Safety Data Sheet

Self Life : 12 month from the date of manufacturing

Disclaimer:

A representative sample was taken from the above mentioned delivery and this was analyzed in accordance with the published method. We certify that the product delivered has passed all quality controls and confirms to the our internal quality control specifications.

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