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TCPP

(Tris(2-chloroisopropyl) Phosphate)

GENERAL DESCRIPTION

TCPP is a general purpose chlorinated phosphate ester flame retardant used in rigid and flexible polyurethane foams, whose superiority is demonstrated in low odor, high heat stability, excellent hydrolysis stability, low viscosity, superior compatibility with resin. It is recommended as flame retardant for PU foams, PVC and adhesives.

SPECIFICATIONS

Appearance	Colourless and not turbid
Chromacity(pt-co)	≤40
Acidity mgkoh/g	≤0.05
Moisture m/m %	≤0.05
Viscosity @25°C mpa.s	65-70
Density @25°C	1.280-1.290
refractive index @25°C	1.4625-1.4645
P content(wt. %)	9.0-9.8
Cl content(wt. %)	32.0-32.8

PROPERTIES

TCPP

CAS Number : 13674-84-5
Risk class: R22R37

Appearance: Liquefied
Color/Colour: colorless/colourless
Odor/Odour: Not available
Molecular Structure:

Formula: C₉H₁₈Cl₃O₄P

Molecular Weight: 327.57

EINECS: 237-158-7

Synonyms:

2-Propanol, 1-chloro-, phosphate Phosphoric acid, tris(2-chloro-1-methylethyl) ester, Tris(1-chloro-2-propyl) phosphate, Tris(1-chloropropan-2-yl) phosphate, Tris(2-chloroisopropyl)phosphate.

Melting Point: -42 °C

Boiling Point: 220 °C at 760 mmHg

Vapor Pressure: 2 mmHg @ 25 °C

Flash point: 185 °C

Explosion Limits: Lower Not available, Upper Not available