

PHOSPHORUS OXYCHLORIDE



CAS Number: 10025-87-3

Other Names: Phosphoroychloride; Phosphoric trichloride;
Trichlorophosphate

Formula: POCl_3

PRODUCT INTRODUCTION

Phosphorus oxychloride appears as a colorless fuming liquid with a pungent odor. It is soluble in many organic solvents. It is very toxic by inhalation and corrosive to metals and tissue. It is used in gasoline additives and hydraulic fluids.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless fuming Liquid with Pungent Odor
Assay by Titration	99.82 % (m/m)
Distillation Range (Between 104°C-109°C)	96 %
Specific Gravity (at 25°C)	1-6630
Phosphorus trichloride	0.16 %(m/m)

APPLICATION

- Phosphorus(V) oxychloride is widely used as a dehydrating agent and a chlorinating agent.
- It is useful for the conversion of amide to nitriles, Bischler-Napieralski reaction, Vilsmeier Haak reaction, and other reactions producing commercially important intermediates.
- It acts a source of liquid phosphorus in semiconductor industry.
- It is also employed in manufacture of trialkyl phosphate esters and triarylphosphate esters, including commercially popular tricresyl phosphate, which is useful as a plasticizer, flame retardant, gasoline additive, hydrolytic fluid, etc.

PACKAGING OPTIONS

Drums

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