

SPECIFICATION

Phosphorus Pentachloride

Parameters	Specification
CAS Number	10026-13-8
Appearance	White crystalline solid
Molecular Formula	PCl ₅
Molecular Weight	208.24 g/mol
Boiling Point	166 °C
Melting Point	-93.7 °C
Flash Point	170 °C
Purity	98–99%
Refractive Index	1.65
Solubility	Reacts with water; soluble in nonpolar solvents such as carbon disulfide
Uses	Chlorinating agent; precursor to phosphorus oxychloride (POCl ₃) and other phosphorus chlorides; used in organophosphorus synthesis

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