

Phosphorus oxychloride SOLAR GRADE

CHEMICAL NAME	Phosphorus oxychloride
CAS NUMBER	10025-87-3
FUNCTION	Raw Materials & Intermediates
TECHNICAL REQUIREMENTS	Purity (based on metals analyzed), % >99,9999 Boiling point, °C 105.3 Solidification point, °C 1.2 Silver content, Ag, ppb max. 1 Aluminum content, Al, ppb max. 7 Arsenic content, As, As, ppb max. 40 Gold content, Au, ppb max. 1 Barium content, Ba, ppb max. 1 Bismuth content, Bi, ppb max. 1 Calcium content, Ca, ppb max. 2 Cadmium content, Cd, ppb max. 1 Cobalt content, Co, ppb max. 1 Chromium content, Cr, ppb max. 1 Copper content, Cu, ppb max. 5 Iron content, Fe, ppb max. 15 Gallium content, Ga, ppb max. 1 Mercury content, Hg, ppb max. 1 Potassium content, K, ppm max. 0,2 Lithium content, Li, ppb max. 1 Magnesium content, Mg, ppb max. 1 Manganese content, Mn, ppb max. 1 Molybdenum content, Mo, ppb max. 1 Sodium content, Na, ppm max. 0,2 Niobium content, Nb, ppb max. 1 Nickel content, Ni, ppb max. 1 Lead content, Pb, ppb max. 1 Tin content, Sn, ppb max. 1 Strontium content, Sr, ppb max. 1 Titanium content, Ti, ppb max. 2 Vanadium content, V, ppb max. 1 Zinc content, Zn, ppb max. 1

GENERAL DATA

Appearance at 20-25°C colourless or straw liquid
Solubility in water at 20°C, mg/L..... reacts violently
producing high heat of reaction
Molecular weight, g/mol.....approx. 153,33
Density at 20°C, g/cm³ 1.672-1.678
Odour pungent

APPLICATION

Intermediate in electronics, semiconductor and optical glass manufacturing.