

SPECIFICATION

Product Name: Phosphorus Pentoxide Industrial Grade
Chemical Formula: P_4O_{10}
CAS Number: 1314-56-3
Molecular Weight: 141.94 g/mol
Appearance: White fine powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Assay	%	99.77%	Min. 99.5%
Bulk Density	gm/cc	0.81 gm/cc	0.8 gm/cc (+/-0.2)

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Soluble in methanol. Insoluble in acetone. Insoluble in ether. Insoluble in benzene. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly sealed, moisture-proof container in a cool, dry, and well-ventilated area, away from moisture, water, heat, and incompatible materials.

Applications

- Use: Widely used in chemical, industrial, laboratory, and manufacturing applications. It is primarily employed for moisture removal, gas drying, chemical synthesis, and phosphoric acid production.
- Dosage: Depends on Initial moisture content, Type of material or gas being dried, Reaction stoichiometry, Process scale, Required degree of dehydration, Equipment design.

Packaging

- Standard Packing: 50 Kgs pp bag with inner liner or as per customer requirement.



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- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.



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