

PHOSPHORUS PENTAOXIDE



CAS Number: 1314-56-3

Other Names: Diphosphorus pentoxide; Phosphorus(V) oxide;
Phosphoric anhydride; Tetraphosphorus decaoxide;
Tetraphosphorus decoxide

Formula: P_4O_{10} or P_2O_5

PRODUCT INTRODUCTION

Phosphorus pentoxide is a chemical compound with formula P_2O_5 . This white crystalline solid is the anhydride of phosphoric acid. It is a powerful desiccant. It is flammable, dangerous, and extremely deliquescent solid. It is soluble in sulfuric acid and insoluble in acetone and ammonia, it decomposes in water.

PHYSICAL AND CHEMICAL PROPERTIES

Description	A White Hygroscopic Crystalline Powder
Assay	99.60 %
P_2O_3 Content	0.020 %

APPLICATION

- Phosphorus pentoxide is widely used in the industries of medicine, coating auxiliaries, printing and dyeing auxiliaries, anti static additive, titanate coupling agent, phosphorus oxychloride
- It is used as a strong dehydrating agent, capable even of dehydrating concentrated sulphuric acid into sulphur trioxide.
- It is also used in manufacturing of phosphorus compounds.
- It is used as a condensation reagent in organic synthesis and a laboratory reagent.
- It is also used in sugar refining and in fire extinguishing.

PACKAGING OPTIONS

Drums

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