

PHOSPHORUS PENTOXIDE NANOPOWDER







Purity
99.9%



NS6130-12-000172



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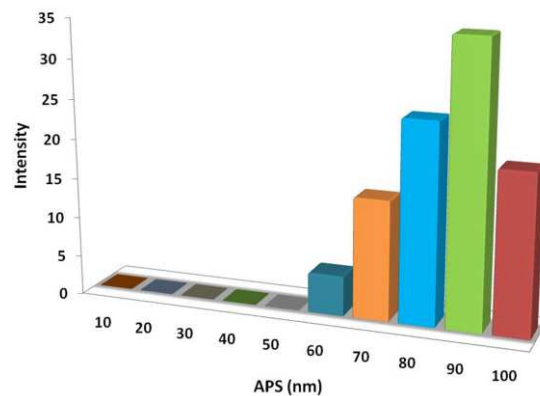
PHOSPHORUS PENTOXIDE NANOPOWDER

Phosphorus pentoxide is a chemical compound and its chemical formula is P_2O_5 . It is available in white crystalline solid and also it is the anhydride of phosphoric acid. It is excellent desiccant and dehydrating agent. Phosphorus pentoxide crystallizes is available in at least four forms or polymorphs.

In Hexagonal lattice, weak van der Waals forces hold these molecules together in a hexagonal lattice. It is utilized as a strong dehydrating agent and it has the capability of dehydrating concentrated sulphuric acid into sulphur trioxide. It is also utilized to dehydrates amides to nitriles. This compound also employed in manufacturing of phosphorus compounds. Phosphorus pentoxide is used in purifying sugar and also used in the making of optical glass or heat-insulating glasses. It is also a good drying agent.

QuickFACTS

Product	:	Phosphorus Pentoxide Nanopowder
Stock No	:	NS6130-12-000172
CAS	:	1314-56-3
Color	:	White
Form	:	Powder
Symbol	:	P_2O_5



ADDITIONAL POWDER CHARACTERISTICS

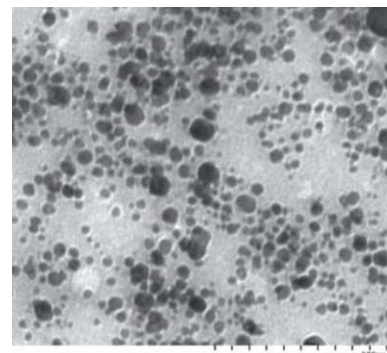
Stock No.	Purity	APS
NS6130-12-000172	99.9%	<100nm

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
P_2O_5	141.95 g/mol	2.28 g/cm ³	420 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	P_2O_5	Other Metal
Phosphorus Pentoxide Nanopowder	99.9%	1000ppm



APPLICATIONS

- > Used as a strong dehydrating agent
- > Dehydrates amides to nitriles
- > In manufacturing of phosphorus compounds
- > Used in purifying sugar
- > Optical glass making
- > Heat-insulating glass
- > Used as a drying agent
- > Medicine, pesticide and surfactant manufacturing



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
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