

Phosphorus pentoxide (P2O5) HP

Phosphorus Specialties & Intermediates

Description

Phosphorus pentoxide HP is a white crystalline powder, extremely hygroscopic. It is formed by burning elemental phosphorus in the abundant presence of oxygen. Most practical applications and uses of phosphorus pentoxide HP are based around its extreme affinity to water, which makes it an excellent dehydrating agent. The dissolution in water is exothermic and demands due care.

Chemical Composition

Phosphoric anhydride, P₂O₅

CAS Registry Number

1314-56-3

Appearance

 P_2O_5 HP is a white, free flowing powder.

Typical Properties*

Property	Nominal Value	Unit
Density	0.9 - 1.1	g/cm³
Sublimation point starts at	360	°C
Molar mass	283.9	g/mol
P ₂ O ₅ content	min. 99.5	% m/m
P ₂ O ₃ content	max. 0.1	% m/m
Arsenic content	max. 100	ppm
Iron content	max. 5.0	ppm
Heavy metals content (as Pb)	max. 20	ppm

*The analytical data are guide values.





Phosphorus pentoxide (P2O5) HP

Phosphorus Specialties & Intermediates

Application

 P_2O_5 HP is used in the production of organic phosphate and polyphosphoric acid. Another application areas are pharmaceuticals and vitamins, catalysts and drying agents

Packaging

25 kg drum, 50 kg drum, 50 kg drum inliner, 200 kg drum. 450 big bag, 850 big bag, 1000 kg IBC.

Storage conditions

 P_2O_5 HP is a very corrosive material. Please refer to the safety data sheet before any use. The material needs to be stored in closed containers away from moisture. The shelf life, if properly stored, is 2 years.

Handling

Consult the safety data sheet for relevant safety data & references as well as possibly necessary warning labels.

This information and our technical advice – whether verbal, in writing or by way of trials – is subject to change without notice and given in good faith but without warranty or guarantee, express or implied, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

©2020 LANXESS and the LANXESS Logo are trademarks of LANXESS Deutschland GmbH or its affiliates. All trademarks are registered in many countries in the world.

North America +1.833.LANXESS customer.care@lanxess.com Europe, Middle East & Africa +44.161.875.3800 emea.export@lanxess.com South & Central America +55.19.3522.5083 atendimento.cliente@lanxess.com

Asia Pacific +86.21.6109.6666 Orders.apac@lanxess.com

Page 2 of 2 Edition: 2020-10-26

