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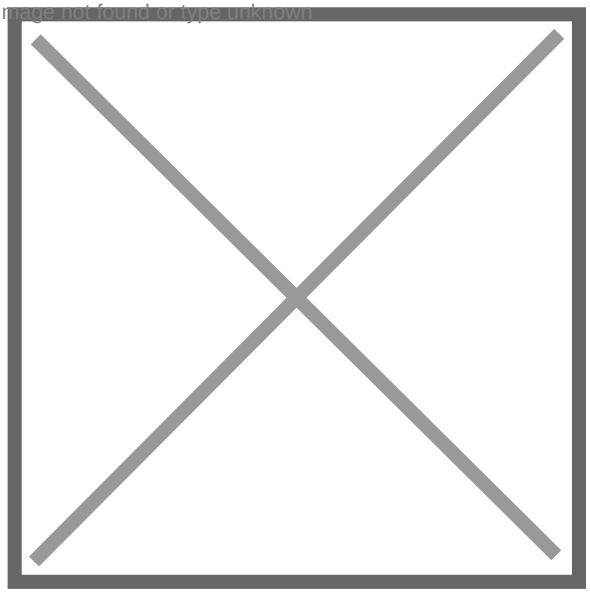
Product Name :

Lead Oxide (IV)

Product Code :

SCI-679/298

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Science Lab

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Description :

Lead Oxide (IV) (Product Code: SCI-679/298) is analytical reagent grade lead(IV) oxide, also called lead dioxide (PbO_2), used as a strong oxidising agent and to explain the lead–acid battery in college and senior-school chemistry laboratories. It is packed as 100 g with an MSDS, a practical quantity for a toxic heavy-metal compound that is used in small portions. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, a laboratory chemicals supplier in India.

Specifications

Parameter	Detail
Chemical name	Lead(IV) oxide (lead dioxide), PbO_2
Grade	Analytical reagent
Pack size	100 g
Documentation	MSDS supplied
Shelf life	Shelf life depends on the chemical, its grade and storage conditions; ask us for the expiry date of the batch you are quoted.
Product code	SCI-679/298
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is Lead Dioxide Used For?

Lead dioxide is the active material of the positive plate in a lead–acid accumulator, so it anchors lessons on how a car battery stores and releases energy; during discharge both plates change to lead sulfate in the sulfuric acid electrolyte. In the laboratory it acts as a powerful oxidant. It oxidises concentrated hydrochloric acid to chlorine and, in nitric acid solution, converts manganese(II) ions to purple permanganate, a classic confirmatory test for manganese.

It also illustrates the inert pair effect in group 14: the +2 state of lead is more stable than +4, which is why lead(IV) oxide gives up oxygen on heating and behaves as an oxidiser. Because lead compounds are toxic, weigh it in small amounts, avoid creating dust, wear gloves and eye protection, and collect residues as heavy-metal waste in line with the MSDS.

Supplier

Lead Oxide (IV) is sourced and supplied by Jain Scientific Equipments Private Limited, which trades as ScienceLab from Ambala, Haryana. Because it is a hazardous heavy-metal reagent, every pack travels with its MSDS so that the receiving laboratory has handling and disposal guidance on file.

Colleges, research groups, dealers and importers in India and international markets can learn about the company on the ScienceLab profile.

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