

## Nitric acid is used in lead-acid batteries

Lead-acid batteries: Lead acid batteries carry: lead dioxide and metallic lead as anode and sulfuric acid (electrolyte) iv. Lithium-ion batteries: This type of battery can make use of variety of substances, however the best ...

Lead storage battery or lead-acid battery, is one type of rechargeable battery and one of the common energy storage devices in which sulfuric acid is used. During discharge, both the positive and negative electrodes become lead(II) sulfate ( $PbSO_4$ ). The electrolyte loses much of its sulfuric acid which is in dissolved state and becomes water ...

While the majority of lead-acid batteries used to be flooded type, with plates immersed in the electrolyte, there are now several different versions of lead-acid batteries. The variations are based on several aspects, such as electrode additives, thickness of plates, variations to electrolyte, and change from open to sealed batteries. There are two main types ...

Which of the following acid is used in car batteries? Right on! Give the BNAT exam to get a 100% scholarship for BYJUS courses. Sulphuric acid is used in lead-acid batteries. Q. The table ...

Hint: As we know that the lead acid battery will have two electrodes and an electrolytic solution. The electrodes present in lead acid batteries are lead and lead dioxide. Complete step by step answer: Lead acid batteries have a small energy-to-volume ratio and a very low energy-to-weight ratio; its ability to supply high contents reveals that the cell has a large power-to-weight ratio.

The lead-acid battery with sulfuric acid just undergoes reactions involving the lead and gives contained, nonvolatile products. By way of contrast, hydrochloric acid could be oxidized to chlorine gas at the anode and nitric acid could be reduced to nasty nitrogen oxides at the cathode. We would not want such fumes coming from car batteries ...

Hydrochloric acid, as well as nitric acid, are also strong acids like sulfuric acid. So, why are not they used commercially in lead-acid batteries? Along with the battery issues identified by ...

The acid used in lead storage batteries is sulphuric acid which is 38% by mass. Additional Information: Since, it is a secondary battery that means it can be recharged after discharging.

In typical lead acid batteries, positive and negative plates composed of lead alloy and filled with active material. The lead alloy plates are used as electrodes for the cell. An alternative assembly for the battery would be comprised of two separated cells and two electrodes with predetermined molal concentrations of sulfuric acid in each cell ...

## Nitric acid is used in lead-acid batteries

In batteries containing lead, nitric acid is often used as part of the charging process. When the battery is charged, lead sulfate is formed, which can be converted back into lead and lead dioxide by utilizing nitric acid. This process helps to ...

Hydrochloric acid, as well as nitric acid, are also strong acids like sulfuric acid. So, why are not they used commercially in lead-acid batteries? Along with the battery issues identified by Stapke, there is the matter of toxic emissions.

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One of the most common battery acids is sulfuric acid, which is used in lead-acid batteries found in motor vehicles. Other types of battery acids include hydrochloric acid, nitric acid, and phosphoric acid. Battery acids are highly corrosive and can cause severe burns and damage to skin and other materials. It is crucial to handle them with ...

Which of the following acid is used in car batteries? Right on! Give the BNAT exam to get a 100% scholarship for BYJUS courses. Sulphuric acid is used in lead-acid batteries. Q. The table below shows the pH values of some chemicals. Which of the above is the strongest acid? Q. Which of the following acids is used in car batteries? Q.

The acid used in lead storage batteries is (a)nitric acid (b)carbonic acid (c)sulphuric acid (d)hydrochloric acid. Open in App. Solution. sulfuric acid. Suggest Corrections . 1. Similar questions. Q. Sulphuric acid is used in lead-acid storage batteries. Q. The acid used in lead storage battery is: Q. Give two main uses each of (a) sulphuric acid (b) hydrochloric acid (c) ...

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