

Will Hydrogen Peroxide Bleach Teeth

== Description == 78a00d9415 Enamel is the hardest substance in the human body and contains the highest percentage of minerals (at 96%), with water and organic material composing the rest. The primary mineral is hydroxyapatite, which is a crystalline calcium phosphate. Enamel is formed on the tooth while the tooth develops within the jaw bone before it erupts into the mouth. Once fully formed, enamel does not contain blood vessels or nerves, and is not made of cells. Remineralisation of teeth can repair damage to the tooth to a certain degree but damage beyond that cannot be repaired by the body. The maintenance and repair of human tooth enamel is... 78a00d9415 Sodium perborate was first obtained in 1898, independently, by Sebastian Tanatar and by P. Melikoff and L. Pissadewsky; the researchers prepared sodium perborate by treating sodium borate with a solution of hydrogen peroxide and sodium hydroxide, but Tanatar also obtained sodium perborate by electrolysis of a solution of sodium borate. 78a00d9415

Hydrogen peroxide-urea It contains solid and water-free hydrogen peroxide, which offers a higher stability and better controllability than liquid hydrogen peroxide when used as an oxidizing agent. Often called carbamide peroxide in dentistry and when used in over-the-counter ear drops, it is used as a source of hydrogen peroxide when dissolved in water for bleaching, disinfection and oxidation. Hydrogen peroxide-urea (also called Hyperol, artizone, urea hydrogen peroxide, and UHP) is a white crystalline solid chemical compound composed of equimolar Hydrogen peroxide-urea (also called Hyperol, artizone, urea hydrogen peroxide, and UHP) is a white crystalline solid chemical compound composed of equimolar amounts of hydrogen peroxide and urea 78a00d9415

Benzoyl peroxide is mainly used in production of plastics and for bleaching flour, hair, plastics and textiles. 78a00d9415

Benzoyl peroxide $2\text{C}_6\text{H}_5\text{C}(\text{O})\text{Cl} + \text{BaO}_2 \rightarrow (\text{C}_6\text{H}_5\text{CO})_2\text{O}_2 + \text{BaCl}_2$ Benzoyl peroxide is usually prepared by treating hydrogen peroxide with benzoyl chloride under alkaline conditions Benzoyl peroxide is a chemical compound (specifically, an organic peroxide) with the structural formula $(\text{C}_6\text{H}_5-\text{C}(=\text{O})\text{O}-)_2$, often abbreviated as $(\text{BzO})_2$. Benzoyl peroxide is an oxidizer, which is principally used in the production of polymers. The molecule can be described structurally as two benzoyl $(\text{C}_6\text{H}_5-\text{C}(=\text{O})-$, Bz) groups connected by a peroxide $(-\text{O}-\text{O}-)$. It is a white granular solid with a faint odour of benzaldehyde, poorly soluble in water but soluble in acetone, ethanol, and many other organic solvents 78a00d9415

Unlike sodium percarbonate, the peroxyborates are not adducts of hydrogen peroxide. Rather, they contain a peroxyborate anion $[(\text{B}(\text{OH})_2\text{OO})_2]^{2-}$, which consists of a cyclic $-\text{B}-\text{O}-\text{O}-\text{B}-\text{O}-\text{O}-$ core with a pair of hydroxy groups bonded to each boron atom. The ring adopts a chair conformation. The hexahydrate has the formula... 78a00d9415

Hydrogen peroxide Hydrogen peroxide is a chemical compound with the formula H_2O_2 . In its pure form, it is a very pale blue liquid; however, at lower concentrations, it Hydrogen peroxide is a chemical compound with the formula H_2O_2 . Its strong tendency to form hydrogen bond networks results in greater viscosity compared to water. In its pure form, it is a very pale blue liquid; however, at lower concentrations, it appears colorless due to the faintness of the blue coloration. The molecule hydrogen peroxide is asymmetrical and highly polarized. Concentrated hydrogen peroxide, or "high-test peroxide", decomposes explosively when heated and has been used as both a monopropellant and an oxidizer in rocketry. It is used as an oxidizer, bleaching agent, and antiseptic, usually as a dilute solution (3%–6% by weight) in water for consumer use and in higher concentrations for industrial use 78a00d9415

As a bleach, it has been used as a medication and a water disinfectant. 78a00d9415

Crest Whitestrips concentration of hydrogen peroxide. [citation needed] Possible side effects from Whitestrips usage include gum irritation and white spots on the teeth for a few Crest Whitestrips is a line of tooth whitening products made by Procter & Gamble 78a00d9415

Tooth discoloration tooth is called bleaching. Sometimes there are several different co-existent factors responsible for discoloration. Professional teeth whitening is performed using bleaching agents, usually hydrogen peroxide or carbamide peroxide, at concentrations Tooth discoloration is abnormal tooth color, hue or translucency. External discoloration is accumulation of stains on the tooth surface. Internal discoloration is due to absorption of pigment particles into tooth structure 78a00d9415

== History... == 78a00d9415 == Normal tooth shade == 78a00d9415

Sodium perborate Both the anhydrous and hexahydrate salts are white, odorless, water-soluble solids. Peroxyborates are widely used in laundry detergents, as one of the peroxide-based bleaches. Sodium perborate was first obtained in 1898, independently, by Sodium perborate are chemical compounds with chemical formula $[\text{Na}^+]_2[\text{B}_2\text{O}_4(\text{OH})_4]^{2-}(\text{H}_2\text{O})_x$. Commonly encountered salts are the anhydrous form ($x = 0$) and as a hexahydrate ($x = 6$). These two species are sometimes called, respectively, "monohydrate" or PBS-1 and "tetrahydrate" or PBS-4, after the historic assumption that NaBO_3 would be the anhydrous form) 78a00d9415

Many bleaches have broad-spectrum bactericidal properties, making them useful for disinfecting and sterilizing. Liquid bleach is one of the few compounds capable of fully annihilating DNA, making it commonplace for sanitizing laboratory equipment. They are used in swimming pool sanitation to control bacteria, viruses, and algae and in many places where sterile conditions are required. They are also used in many industrial processes, notably in the bleaching of wood pulp. Bleaches also have other minor uses, such as removing mildew, killing weeds, and increasing the longevity of cut flowers. 78a00d9415 Hydrogen peroxide (H_2O_2) is the active ingredient most commonly used in whitening products and is delivered as either hydrogen peroxide or carbamide peroxide. Hydrogen peroxide is analogous to carbamide peroxide as it is released when the stable complex is in contact with water. When it diffuses into the tooth, hydrogen peroxide acts as an oxidising agent that breaks down to produce unstable free radicals. In the spaces between the inorganic salts in tooth enamel, these unstable free radicals attach to organic pigment molecules resulting in small, less heavily pigmented components. Reflecting less light, these smaller molecules create a "whitening effect". Peroxyacids are an alternative to hydrogen peroxide and also contribute to the breakdown of pigment molecules. There are different products available on the market to remove stains... 78a00d9415

Peroxy acid The two main classes are those derived from conventional mineral acids, especially sulfuric acid, and the peroxy derivatives of organic carboxylic acids. They are generally strong oxidizers. concentrations in dentistry to effectively bleach teeth. Lower concentrations are common for home use. Compared to hydrogen peroxide, peroxy-carboxylic acids are approved A peroxy acid (often spelled as one word, peroxyacid, and sometimes called peracid) is an acid which contains an acidic –OOH group

Hydrogen peroxide is a reactive oxygen species and the simplest peroxide, a compound having an oxygen–oxygen single bond. It decomposes slowly into water and elemental oxygen when exposed to light, and rapidly in the presence of organic or reactive compounds. It is typically stored with a stabilizer in a weakly acidic solution in an opaque bottle. Hydrogen peroxide is found in biological systems including the human body. Enzymes that use or decompose hydrogen peroxide... 78a00d9415 == Structure == 78a00d9415 == Inorganic peroxy acids == 78a00d9415 Possible side effects from Whitestrips usage include gum irritation and white spots on the teeth for a few hours after use. Sensitivity can also temporarily occur. Whitestrips can also have a bleaching effect if they come in contact with clothing or skin. Whitestrips are not for use by children under the age of 12, while Crest... 78a00d9415 In 2010, the "3D" range of Whitestrips was introduced. The new "Advanced Seal" was a technological advancement from the older Crest Whitestrips. The strips are now non-slip, and also whiten more teeth because each strip is longer. These are available with the strongest retail 3D Advanced Vivid and 3D Professional Effects Whitestrips. 78a00d9415

Tooth whitening The chemical degradation of the chromogens within or on the tooth is termed as bleaching. Hydrogen peroxide (H_2O_2) is the active ingredient most commonly used in whitening products and is delivered as either hydrogen peroxide or Tooth whitening or tooth bleaching is the process of lightening the colour of human teeth. bleaching. Whitening is often desirable when teeth become yellowed over time for a number of reasons, and can be achieved by changing the intrinsic or extrinsic colour of the tooth enamel 78a00d9415

As a medication, benzoyl peroxide is mostly used to treat acne, either alone or in combination with other treatments. Some versions are sold mixed with antibiotics such as clindamycin. It is on the World Health Organization's List of Essential Medicines. It is available as an over-the-counter and generic medication. It is also used in dentistry for tooth whitening. In 2021, it was the 284th most commonly prescribed medication in the United States, with more than 700,000 prescriptions. 78a00d9415 Peroxyborates are widely used in laundry detergents, as one of the peroxide-based bleaches. 78a00d9415 U.S. dentists also offer a specialized Crest Whitestrips called "Supreme", which is more effective than retail versions due to the higher concentration of hydrogen peroxide. 78a00d9415 For the preparation of the complex, urea is dissolved in 30% hydrogen peroxide (molar ratio 2:3) at temperatures below 60 °C (140 °F). upon cooling this solution, hydrogen peroxide-urea precipitates out in the form of small platelets. 78a00d9415

Bleach e. The main products in this class are the following: Hydrogen peroxide (H_2O_2). It is used, for example, to bleach wood pulp, hair and teeth, Bleach is the generic name for any chemical product that is used industrially or domestically to remove color from (i. bleach. It often refers specifically to a dilute solution of sodium hypochlorite, also called "liquid bleach". to whiten) fabric, fiber, or food (in a process called bleaching) or to disinfect after cleaning 78a00d9415

Crest Whitestrips were announced in 2000 and introduced in 2001. The product is used by placing a disposable plastic strip directly onto the teeth that contains an enamel-safe whitening gel. It is reported to be most effective on yellow and heavily stained teeth. 78a00d9415 Chlorine... 78a00d9415

Tooth enamel intrinsically change the color of teeth are hydrogen peroxide and carbamide peroxide. Oxygen radicals from the peroxide in the whitening agents contact Tooth enamel is one of the four major tissues that make up the tooth in humans and many animals, including some species of fish. It is a very hard, white to off-white, highly mineralised substance that acts as a barrier to protect the tooth but can become susceptible to degradation, especially by acids from food and drink. It makes up the normally visible part of the tooth, covering the crown. The other major tissues are dentin, cementum, and dental pulp. In rare circumstances enamel fails to form, leaving the underlying dentin exposed on the surface 78a00d9415

Bleaches work by reacting with many colored organic compounds, such as natural pigments, and turning them into colorless ones. While most bleaches are oxidizing agents (chemicals that can remove electrons from other molecules), some are reducing agents (that donate electrons). 78a00d9415 == Features == 78a00d9415 Akin to water of crystallization, hydrogen peroxide cocrystallizes with urea with the stoichiometry of 1:1. The compound is simply produced (on a scale of several hundred tonnes a year) by the dissolution of urea in excess concentrated hydrogen peroxide solution, followed by crystallization. The laboratory synthesis is analogous. 78a00d9415 == Production == 78a00d9415

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