

Hydrogen Peroxide / H₂O₂

PRODUCT CODE: PPUPA 061

PRODUCT DESCRIPTION

Hydrogen Peroxide is a colorless liquid that is a powerful oxidizing agent. It has the chemical formula H₂O₂, which means it is water with an extra oxygen molecule. Hydrogen peroxide is used for oxidizer and bleaching agent. It works by producing oxygen that kills germs and bleaches color from porous surfaces.

Hydrogen peroxide is a reactive oxygen species and the simplest peroxide. 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 a dark bottle to block light. Hydrogen peroxide is found in biological systems including the human body. Enzymes that use or decompose hydrogen peroxide are classified as peroxidases.

PRODUCT FEATURES

- Oxidizing Agent During Chemical Synthesis
- Hydrogen peroxide is the core-bleaching agent in the mechanical pulping process.
- Its low molecular weight, low cost-effectiveness, and high bleaching properties make it the best source of bleaching paper industries have.
- Provides a much easier and efficient solution to help industries extract their desired product from impurities.
- The key for the extraction of minerals using hydrogen peroxide lies in the oxidation capabilities of the said compound.
- Ease the process of removal of copper impurities.
- Provides up to a 10% increase in the yield of the desired product because of its efficient way of extraction.
- Highly reactive oxygen which is a potent oxidizer and disinfectant.
- Moreover, it is extremely cheap and has wide household applications too.



PRODUCT PROPERTIES

Appearance	: Very light blue liquid, slightly sharp
Molar mass	: 34.0147 g/mol-1
Density	: 1.450 g/cm ³ (20 °C, pure)
Boiling point	: 150.2 °C
Solubility in water	: Miscible

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