HYDROGEN PEROXIDE

CAS Number: 7722-84-1

Other Names: Oxydol; Perhydrol; Hydrogen dioxide; Hydroperoxide; Superoxol

Formula: H_2O_2

PRODUCT INTRODUCTION

Hydrogen peroxide is an inorganic peroxide consisting of two hydroxy groups joined by a covalent oxygen-oxygen single bond. Hydrogen peroxide is a colorless liquid at room temperature with a bitter taste. Small amounts of gaseous hydrogen peroxide occur naturally in the air. Hydrogen peroxide is unstable, decomposing readily to oxygen and water with release of heat.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear and Colorless Liquid
Concentration % w/w, Min	50.82
Specific Gravity at 25°C	1.1949
Rate of decomposition (at 96°C for 16H) % w/w, Max	4.87
Acidity (as H_2SO_4), g/100 mL, Max	0.040

APPLICATIONS

- Hydrogen peroxide is an important commercial chemical. It is used as a bleaching or deodorizing agent in foods, textiles and personal care items.
- The second major industrial application is the manufacture of sodium percarbonate and sodium perborate, which are used as mild bleaches in laundry detergents.
- Highly purified hydrogen peroxide is used in wet chemical processes during the manufacture of silicon semiconductor devices to clean silicon wafers and to remove photoresist layers.
- Some horticulturalists and users of hydroponics advocate the use of weak hydrogen peroxide solution in watering solutions.

PACKAGING OPTIONS

Drums

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