

Hydrogen Peroxide

Oxidizer and disinfectant

Product Description

Hydrogen Peroxide is an industrial oxidizer and disinfectant used in sterilization, bleaching, water treatment and chemical synthesis. Available in various concentrations.

Certificate of Analysis

HSN Code: 2847.00

CAS Number: 7722-84-1

Classification: Hazardous – Oxidizer / Corrosive

Parameter	Specification	Test Method
Appearance	Clear colorless liquid	Visual
A s s a y (H , O ,)	35% / 50% / 60% as per grade	Permanganate Titration
A c i d i t y (a s H , S O ,)	"d 0 . 0 5 %	Titration
Stability (after 24h at 100°C)	"e 9 7 %	Accelerated stability test
Non-Volatile Residue	"d 0 . 0 0 5 %	Gravimetric
Iron (Fe)	"d 0 . 5 p p m	AAS
Color (APHA)	"d 1 0	Hazen scale
Heavy Metals	"d 5 p p m	ICP-MS

Physical Properties

Appearance: Clear colorless liquid

Odor: Faint characteristic odor

M o l e c u l a r F o r m u l a : H , O ,

Molecular Weight: 34.01 g/mol

Solubility: Miscible with water in all proportions

Density: 1.11–1.19 g/cm³ depending on concentration

Boiling Point: 150.2°C (35% aqueous)

Packing: 35 kg / 60 kg HDPE jerry cans; 250 kg HDPE drums; IBC 1000 L containers; ISO tank for 50%+ grades

Storage: Store in cool (<20°C), well-ventilated area. Keep away from combustible materials, reducing agents, and metal c

Safety & Handling

PPE: Face shield, chemical-resistant gloves, acid/oxidizer-resistant suit, safety boots

Hazards:

- Strong oxidizer – fire and explosion risk with organics
- Corrosive to skin and eyes
- Harmful by inhalation