

# Product Specification

**Product Name:**           **HYDROGEN PEROXIDE 30% w/w AR (100 volumes)**

Alternate Name(s)           HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Description

Clear water-like liquid.

Properties

Chemical Formula:       H<sub>2</sub>O<sub>2</sub>

Molecular Weight:       34.01

Product Code:           HA154

CAS No.:                 7722-84-1

General Information:

Slowly decomposes, evolving oxygen; the rate of decomposition increases on contact with metals. When carried as aqueous solution, hazard increases with greater concentrations.

Hazard and Safety Data

UN Group:               II  
Class:                    5.1  
UN Number:             2014  
Hazchem code:         2P  
CS MSDS Code:         1CH35  
Poison schedule:       S6  
Emergency  
Procedure Guide No.:   31

Quality Specification

Assay:                   30% min.

Specific Properties and Impurities [Typical levels]:

Particles >0.5µm	80 P/ml
Non-volatile matter	0.005%
Residue on ignition	0.002%
Free acid (as H <sub>2</sub> SO <sub>4</sub> )	0.004%
Chloride (Cl)	0.00005%
Phosphate (PO <sub>4</sub> )	0.0001%
Sulfate (SO <sub>4</sub> )	0.0001%
Total N	0.0002%
Aluminium (Al)	0.000003%
Barium (Ba)	0.000001%
Beryllium (Be)	0.000001%
Bismuth (Bi)	0.000002%
Boron (B)	0.000002%
Cadmium (Cd)	0.000001%
Calcium (Ca)	0.000005%
Chromium (Cr)	0.000001%
Cobalt (Co)	0.000001%
Copper (Cu)	0.000001%
Gallium (Ga)	0.000001%
Germanium (Ge)	0.000005%
Gold (Au)	0.000002%
Indium (In)	0.000001%
Iron (Fe)	0.000005%
Lead (Pb)	0.000001%
Lithium (Li)	0.000001%

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Magnesium (Mg)	0.000002%
Manganese (Mn)	0.000001%
Molybdenum (Mo)	0.000001%
Nickel (Ni)	0.000001%
Platinum (Pt)	0.000002%
Potassium (K)	0.000002%
Silver (Ag)	0.000001%
Sodium (Na)	0.000005%
Strontium (Sr)	0.000001%
Thallium (Tl)	0.000002%
Tin (Sn)	0.000002%
Titanium (Ti)	0.000001%
Vanadium (V)	0.000001%
Zinc (Zn)	0.000005%
Zirconium (Zr)	0.000001%

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