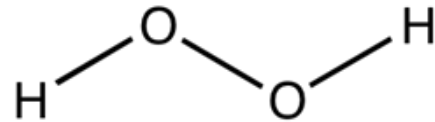


**Hydrogen peroxide, solution 30% w/w (110 vol), for analysis,  
ExpertQ®, ACS, ISO**
**Identification**

H<sub>2</sub>O<sub>2</sub>  
M = 34,01 g/mol  
CAS [7722-84-1]  
EC number: 231-765-0  
Taric code: 2847 00 00


**Synonyms**

Hydrogen dioxide, Hydroperoxide

**Applications**

analytical chemistry, oxidizing agent, bleaching agent, for pharmaceuticals synthesizing.

**Specifications**

assay (permanganometric).....	30,0 - 32,0 %	germanium (Ge).....	max. 0,05 ppm
colour (Hazen).....	max. 10	heavy metals (as Pb).....	max. 1 ppm
free acid (as H <sub>2</sub> SO <sub>4</sub> ).....	max. 0,004 %	iron (Fe).....	max. 0,05 ppm
chlorides (Cl).....	max. 0,00005 %	lead (Pb).....	max. 0,01 ppm
nitrates (NO <sub>3</sub> ).....	max. 0,0002 %	lithium (Li).....	max. 0,01 ppm
phosphates (as PO <sub>4</sub> ).....	max. 0,0001 %	magnesium (Mg).....	max. 0,05 ppm
sulfates (SO <sub>4</sub> ).....	max. 0,0001 %	manganese (Mn).....	max. 0,01 ppm
total nitrogen (as N).....	max. 0,0004 %	molybdenum (Mo).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	nickel (Ni).....	max. 0,02 ppm
ammonium (NH <sub>4</sub> ).....	max. 0,0005 %	potassium (K).....	max. 0,1 ppm
arsenic (As).....	max. 0,01 ppm	sodium (Na).....	max. 0,1 ppm
barium (Ba).....	max. 0,05 ppm	strontium (Sr).....	max. 0,01 ppm
beryllium (Be).....	max. 0,01 ppm	thallium (Tl).....	max. 0,05 ppm
bismuth (Bi).....	max. 0,1 ppm	titanium (Ti).....	max. 0,1 ppm
cadmium (Cd).....	max. 0,01 ppm	vanadium (V).....	max. 0,01 ppm
calcium (Ca).....	max. 0,2 ppm	zinc (Zn).....	max. 0,05 ppm
chromium (Cr).....	max. 0,02 ppm	zirconium (Zr).....	max. 0,1 ppm
cobalt (Co).....	max. 0,01 ppm	residue on ignition.....	max. 0,002 %
copper (Cu).....	max. 0,01 ppm	residue on evaporation.....	max. 0,002 %

**Physical data**

- Density: 1,11 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: -26 °C
- Boiling point: 107 °C
- Vapour pressure: (20 °C) ~ 18 hPa
- pH(20 °C) 2 - 4

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H318: Causes serious eye damage.  
H302: Harmful if swallowed.


**Precautionary Statements:**

- P280: Wear protective gloves / protective clothing / eye protection / face protection.  
P264: Wash thoroughly after handling.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor / physician.  
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 5.1 OC1 II • UN 2014 • HYDROGEN PEROXIDE, AQUEOUS SOLUTION
- IMDG: 5.1 II • UN 2014 • HYDROGEN PEROXIDE, AQUEOUS SOLUTION
- IATA/ICAO: 5.1 II • UN 2014 • HYDROGEN PEROXIDE, AQUEOUS SOLUTION
- PAX: 550
- CAO: 554
- 10°C - 30°C