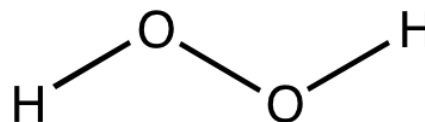


Identification

H₂O₂
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 ₂ SO ₄)	max. 0,004 %	iron (Fe).....	max. 0,05 ppm
chlorides (Cl).....	max. 0,00005 %	lead (Pb).....	max. 0,01 ppm
nitrates (NO ₃).....	max. 0,0002 %	lithium (Li).....	max. 0,01 ppm
phosphates (as PO ₄).....	max. 0,0001 %	magnesium (Mg).....	max. 0,05 ppm
sulfates (SO ₄).....	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 ₄).....	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/cm³
- 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.
P270: Do not eat, drink or smoke when using this product.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330: Rinse mouth.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 2000 mg/kg (90% solution)
- MAK: 1 ml/m³, 1,4 mg/m³
- WGK: 0
- Poison class CH (Swiss): 3

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
- Store below 25°C