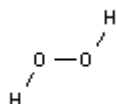


**PRODUCT CODE: 141077**

**Hydrogen Peroxide 33% w/v (110 vol.) stabilized (USP, BP, Ph. Eur.) pure, pharma grade**

H<sub>2</sub>O<sub>2</sub>



M.= 34,01

CAS [7722-84-1]

EINECS 231-765-0

TARIC 2847 00 00 00

**SYNONYMS:** Hydrogen Dioxide, Hydroperoxide

**PHYSICAL DATA:** liquid, Clear, Colourless, Miscible with water • D 20/4 1,12 • M.P.: -26 °C • B.P.: 107 °C • pH2 - 4 • Vap. press. (20 °C) 18 hPa •

**BIBLIOGRAPHY:** Merck Index **12**, 4.839 13, 4.819 Sax **HIB000** • Safety **2**, **2546 B** • Kühn-Birett **W 2** • Ullmann **(5.)13**, 443 • Fieser 1457 **2216 3154 4253 5337 6286 7174 8247 9241 10201 12242 13145 14176 15166** • ACS **XI** • ISO 6353/2-1983R - 14, 19 • BP.**2023** • USP **43** • Ph. Eur. **10.0** (2019) **11.0** (2023) • F.C.C **13** • Royal Decree **I** •

**HAZARDOUS:** C.E: 008-003-00-9 • RTECS: MX 0899000 • LD50 oral rat 1.193 mg/kg • LD50 oral rat 1.200 mg/kg • LC50 rat 2000mg/m<sup>3</sup> / 4h • LD50 skn rat 6.500 mg/kg • VLA-ED 1 ppm1,4 mg/m<sup>3</sup>



H: H302 • H318 •

P: P264 • P270 • P280 • P301+P312 • P305+P351+P338 • P310 • P330 • P501 •

**TRANSPORT REGULATIONS:** UN: 2014 • ADR: 5.1(8)/II • IMDG: 5.1(8)/II • IATA: 5.1(8)/II • PAX: 550 • CAO: 554 • (E) •

**WEIGHT/VOLUME INFORMATION:** 1l-1,11 kg 1kg-0,9 l

**OBSERVATIONS:** Storage away from direct light. •

**SPECIFICATIONS:**

Assay (Perm.) w/w	29,0-31,0 %
Assay (in vol. O2) (Perm.)	110 vol.
Identity :	
Identity according to Pharmacopoeias:	passes test

### Maximum limit of impurities

Acidity	passes test
Non-volatile matter	0,05 %
Chloride (Cl)	0,005%
Nitrogen compounds (as N)	0,005%
Sulfate (SO4)	0,001%
Residual solvents (Ph.Eur/USP)	passes test
Organic stabilizers	0,05%

### Elemental impurities (ICH Q3D):

Class 1	
Cd	0,5 ppm
Pb	0,5 ppm
As	0,5 ppm
Hg	1,5 ppm
Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm
Class 2B	
Tl	0,8 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm
Class 3	
Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm