

**PRODUCT CODE: 141032****ortho-Phosphoric Acid 85% (USP-NF, BP, Ph. Eur.) pure, pharma grade**

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M.= 98,00

CAS [7664-38-2]

EINECS 231-633-2

TARIC 2809 20 00 00

**PHYSICAL DATA:** liquid, Clear, Colourless, Miscible with water • Hygroscopic • D 20/4 1,71 • M.P.: 21 °C • B.P.: 158 °C • pH(100g/l)0,5 • Vap. press. (25 °C) 2,2 hPa •

**BIBLIOGRAPHY:** Merck Index **13**, 7.430 14, 7.344 Sax **PHB250** • Safety **2**, **2822 B** • Römp **8**, **3168** • Kühn-Birett **P 23** • Fieser **1860 45387 7255 10317 15266** • ACS **XI** • ISO 6353/2-1983 R - 22, 30 • BP.**2018** • USP -**NF 36** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **10 11** • Directive 2002/82/EC •

**HAZARDOUS:** C.E: 015-011-00-6 • RTECS: TB 6300000 • LD50 oral rat 1.530 mg/kg • LD50 skn rbt 2.740 mg/kg • VLA-EC 2 mg/m3 VLA-ED 1 mg/m3



H: H314 •

P: P260 • P264 • P280 • P301+P330+P331 • P303+P361+P353 • P501 • P304+P340 • P305+P351+P338 • P310 • P321 • P338 • P363 • P405 •

**TRANSPORT REGULATIONS:** UN: 1805 • ADR: 8/III • IMDG: 8/III • IATA: 8/III • PAX: 852 • CAO: 856 • (E) •

**WEIGHT/VOLUME INFORMATION:** 1l~1,70 kg 1kg~0,59 l

**SPECIFICATIONS:**Assay (Acidim.)  
Identity :

85,0-88,0 %

|  |             |
|--|-------------|
| Identity according to Pharmacopoeias:      | passes test |
| <b>Maximum limit of impurities</b>         |             |
| Appearance of solution                     | passes test |
| Chloride (Cl)                              | 0,005%      |
| Sulfate (SO <sub>4</sub> )                 | 0,01%       |
| Precipit. substances by NH <sub>4</sub> OH | passes test |
| Residual solvents (Ph.Eur/USP)             | passes test |
| Hypophosphorous and phosphorous acid       | passes test |
| Alkaline phosphates                        | passes test |
| Nitrate                                    | passes test |
| Heavy metals (as Pb)                       | 0,001%      |
| As   | 0,00015 %   |
| Fe   | 0,005 %     |

Elemental impurities (ICH Q3D):

|          |         |
|----------|---------|
| Class 1  |         |
| Cd       | 0,5 ppm |
| Pb       | 0,5 ppm |
| As       | 1,5 ppm |
| Hg       | 1,5 ppm |
| Class 2A |         |
| Co       | 5 ppm   |
| V        | 10 ppm  |
| Ni       | 20 ppm  |
| Class 2B |         |
| Tl       | 5 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  |