

AC1098 ortho-Phosphoric acid, 85%, extra pure, Pharmapur®, Ph Eur, BP, NF



assay (acidimetric) 85,0 - 88,0 %
 identification passes test
 appearance of solution clear and colourless
 hypophosphorous acid and
 phosphorous acid passes test
 alkali phosphates. passes test
 chlorides (Cl) max. 50 ppm
 nitrates (NO₃) passes test

sulfates (SO₄) max. 100 ppm
 arsenic (As) max. 2 ppm
 iron (Fe) max. 50 ppm
 substances precipitated with ammonia. passes test
 Elemental impurities are analysed according to guideline
 CHMP/ICH/353369/2013.
 Residual solvents are analysed according to guideline
 CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
AC10981000	1 l	Ⓟ
AC10982500	2,5 l	Ⓟ
AC1098025P	25 l	Ⓟ

AC1100 ortho-Phosphoric acid, 85%, ExpertQ®, for analysis, ACS, ISO, Reag. Ph Eur



assay (acidimetric) min. 85 %
 identity. passes test
 appearance of solution passes test
 colour (Hazen) max. 10
 insoluble in water. max. 0,001 %
 volatile acids (as CH₃COOH) max. 0,001 %
 chlorides (Cl) max. 0,0002 %
 fluorides (F) max. 0,0001 %
 nitrates (NO₃) max. 0,0003 %
 phosphites,
 hypophosphites (as H₃PO₃) max. 0,002 %
 sulfates (SO₄) max. 0,002 %
 antimony (Sb) max. 5 ppm
 arsenic (As) max. 0,5 ppm
 cadmium (Cd) max. 0,5 ppm

calcium (Ca) max. 0,002 %
 cobalt (Co) max. 0,5 ppm
 copper (Cu) max. 0,5 ppm
 heavy metals (as Pb) max. 0,001 %
 iron (Fe) max. 0,001 %
 lead (Pb) max. 0,5 ppm
 magnesium (Mg) max. 5 ppm
 manganese (Mn) max. 0,5 ppm
 nickel (Ni) max. 1 ppm
 potassium (K) max. 5 ppm
 sodium (Na) max. 0,02 %
 zinc (Zn) max. 2 ppm
 substances precipitated with ammonia. passes test
 substances reducing KMnO₄ passes test

ART. NO.	VOLUME	CONTAINER
AC11001000	1 l	Ⓟ
AC11002500	2,5 l	Ⓟ
AC1100025P	25 l	Ⓟ

ortho-PHOSPHORIC ACID, SOLUTION 50%

AC1096 ortho-Phosphoric acid, solution 50%, ExpertQ®, for analysis



- Synonyms: Orthophosphoric acid
- H₃PO₄
- M = 98,00 g/mol
- CAS [7664-38-2]
- EINECS-No.: 231-633-2
- Density: 1,33 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 1530 mg/kg (anhydrous substance)
- EC-Index-No.: 015-011-00-6
- ADR: 8 C1 III UN 1805
- IMDG: 8 III UN 1805
- IATA/ICAO: 8 III UN 1805
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2809 20 00 00
- Applications: analytical chemistry, laboratory reagent, in fertilizer compositions, solvents (for pharmaceutical use), antioxidant (in food industry).

assay (acidimetric) approx. 50 %
 chlorides (Cl) max. 0,0005 %
 nitrates (NO₃) max. 0,0005 %
 silicates (SiO₂) max. 0,025 %
 sulfates (SO₄) max. 0,006 %
 arsenic (As) max. 1 ppm
 antimony (Sb) max. 2 ppm
 cadmium (Cd) max. 1 ppm
 calcium (Ca) max. 0,005 %
 chromium (Cr) max. 1 ppm
 cobalt (Co) max. 1 ppm
 copper (Cu) max. 1 ppm
 iron (Fe) max. 0,001 %
 lead (Pb) max. 1 ppm
 magnesium (Mg) max. 0,001 %
 manganese (Mn) max. 1 ppm
 nickel (Ni) max. 1 ppm
 potassium (K) max. 5 ppm
 sodium (Na) max. 0,05 %
 zinc (Zn) max. 2 ppm
 substances reducing KMnO₄ passes test
 volatile acids (as CH₃COOH) max. 0,001 %

ART. NO.	VOLUME	CONTAINER
AC10961000	1 l	Ⓟ
AC1096005P	5 l	Ⓟ

ortho-PHOSPHORIC ACID, VOLUMETRIC SOLUTIONS

AC1106 ortho-Phosphoric acid, solution 1 mol/l

- H₃PO₄
- M = 98,00 g/mol
- CAS [7664-38-2]
- EINECS-No.: 231-633-2
- Density: 1,04 g/cm³
- LD 50 (oral, rat): 1530 mg/kg (anhydrous substance)
- EC-Index-No.: 015-011-00-6
- Tariff number: 2809 20 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

factor 0,999 - 1,001
 uncertainty ± 0,001
 1 ml = 0,098 g H₃PO₄
 This volumetric solution was checked by means of potentiometric methods using a sodium hydroxide standard solution, that was also checked against Scharlab's potassium hydrogen phthalate volumetric standard. Scharlab's volumetric standards are directly traceable to the Standard Reference Materials from NIST (National Institute of Standards and Technology, USA).

ART. NO.	VOLUME	CONTAINER
AC11061000	1 l	Ⓟ