Scharlau
The wise choice

AC1098 ortho-Phosphoric acid, 85%, extra pure, Pharmpur®, 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 (NO_3)	passes test
sulfates (SO_4)	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 CH_3COOH)	max. 0,001 %
chlorides (Cl)	max. 0,0002 %
fluorides (F)	max. 0,0001 %
nitrates (NO_3)	max. 0,0003 %
phosphites, hypophosphites (as H_3PO_3)	max. 0,002 %
sulfates (SO_4)	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 $KMnO_4$	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
- H_3PO_4
- 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 (NO_3)	max. 0,0005 %
silicates (SiO_2)	max. 0,025 %
sulfates (SO_4)	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 $KMnO_4$	passes test
volatile acids (as CH_3COOH)	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

- H_3PO_4
- 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 H_3PO_4
This volumetric solution was checked by means of potentiometric methods using a sodium hydroxide standard solution, that was also checked against Scharlau's potassium hydrogen phthalate volumetric standard. Scharlau'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	