AC1760 Perchloric acid, 70%, ExpertQ®, for analysis, ACS, ISO

assay (acidimetric)	69 - 72 %
identity	passes test
colour (Hazen)	max. 10
insoluble in C_2H_5OH	max. 0,001 %
free chlorine (as Cl)	max. 0,00005 %
total nitrogen (as N)	max. 0,001 %
chlorates (ClO_3)	max. 0,001 %
chlorides (Cl)	max. 0,0003 %
phosphates and silicates (as SiO_2)	max. 0,0005 %
sulfates (SO_4)	max. 0,001 %
aluminium (Al)	max. 0,05 ppm
arsenic (As)	max. 0,05 ppm
barium (Ba)	max. 0,02 ppm
beryllium (Be)	max. 0,02 ppm
bismuth (Bi)	max. 0,1 ppm
cadmium (Cd)	max. 0,05 ppm
calcium (Ca)	max. 0,5 ppm
cobalt (Co)	max. 0,05 ppm
copper (Cu)	max. 0,1 ppm
germanium (Ge)	max. 0,05 ppm
heavy metals (as Pb)	max. 1 ppm
iron (Fe)	max. 1 ppm
lead (Pb)	max. 0,05 ppm
lithium (Li)	max. 0,02 ppm
magnesium (Mg)	max. 0,5 ppm
manganese (Mn)	max. 0,02 ppm
molybdenum (Mo)	max. 0,05 ppm
nickel (Ni)	max. 0,1 ppm
potassium (K)	max. 0,1 ppm
silver (Ag)	max. 0,1 ppm
sodium (Na)	max. 0,5 ppm
strontium (Sr)	max. 0,02 ppm
thallium (Tl)	max. 0,05 ppm
titanium (Ti)	max. 0,1 ppm
vanadium (V)	max. 0,05 ppm
zinc (Zn)	max. 0,1 ppm
zirconium (Zr)	max. 0,1 ppm
residue on ignition (as SO_4)	max. 0,003 %

ART. NO.	VOLUME	CONTAINER
AC17601000	1 l	
AC17601001	1 l	
AC17602500	2,5 l	

AC1761 Perchloric acid, 70%, Ultratrace®, ppb-trace analysis grade

assay (acidimetric)	65 - 71 %
colour (Hazen)	max. 10
aluminium (Al)	max. 1 ppb
antimony (Sb)	max. 0,5 ppb
arsenic (As)	max. 0,5 ppb
barium (Ba)	max. 1 ppb
beryllium (Be)	max. 0,5 ppb
bismuth (Bi)	max. 0,5 ppb
cadmium (Cd)	max. 1 ppb
calcium (Ca)	max. 1 ppb
cerium (Ce)	max. 0,5 ppb
cesium (Cs)	max. 0,5 ppb
cobalt (Co)	max. 0,5 ppb
copper (Cu)	max. 0,5 ppb
dysprosium (Dy)	max. 0,5 ppb
erbium (Er)	max. 0,5 ppb
europium (Eu)	max. 0,5 ppb
gadolinium (Gd)	max. 0,5 ppb
gallium (Ga)	max. 0,5 ppb
gold (Au)	max. 0,5 ppb
holmium (Ho)	max. 0,5 ppb
indium (In)	max. 0,5 ppb
iron (Fe)	max. 1 ppb
lanthanum (La)	max. 0,5 ppb
lead (Pb)	max. 1 ppb
lithium (Li)	max. 0,5 ppb
lutetium (Lu)	max. 0,5 ppb
magnesium (Mg)	max. 1 ppb
manganese (Mn)	max. 1 ppb
molybdenum (Mo)	max. 0,5 ppb
neodymium (Nd)	max. 0,5 ppb
nickel (Ni)	max. 1 ppb
palladium (Pd)	max. 0,5 ppb
platinum (Pt)	max. 0,5 ppb
potassium (K)	max. 1 ppb
praseodymium (Pr)	max. 0,5 ppb
rhodium (Rh)	max. 0,5 ppb
rubidium (Rb)	max. 0,5 ppb
samarium (Sm)	max. 0,5 ppb
scandium (Sc)	max. 0,5 ppb
silver (Ag)	max. 1 ppb
sodium (Na)	max. 1 ppb
strontium (Sr)	max. 0,5 ppb
tellurium (Te)	max. 0,5 ppb
terbium (Tb)	max. 0,5 ppb
thallium (Tl)	max. 0,5 ppb
thorium (Th)	max. 1 ppb
thulium (Tm)	max. 0,5 ppb
tin (Sn)	max. 1 ppb
titanium (Ti)	max. 1 ppb
uranium (U)	max. 0,5 ppb
vanadium (V)	max. 0,5 ppb
ytterbium (Yb)	max. 0,5 ppb
yttrium (Y)	max. 0,5 ppb
zinc (Zn)	max. 1 ppb
zirconium (Zr)	max. 0,5 ppb

ART. NO.	VOLUME	CONTAINER
AC17610500	500 ml	

PERCHLORIC ACID, 60%

AC1755 Perchloric acid, solution 60% w/w, ExpertQ®, for analysis, ACS, ISO

- $HClO_4$
- M = 100,46 g/mol
- CAS [7601-90-3]
- EINECS-No.: 231-512-4
- Density: 1,53 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 160 °C
- LD 50 (oral, rat): 1100 mg/kg (anhydrous substance)
- EC-Index-No.: 017-006-00-4
- ADR: 5.1 OC1 I UN 1873
- IMDG: 5.1 I UN 1873
- IATA/ICAO: 5.1 I UN 1873
- GHS-signal word: Danger
- GHS-H sentences: H271 - H314 - H302
- GHS-P sentences: P221 - P283 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2811 19 80 90
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, in explosive compositions.

assay (acidimetric)	60 - 62 %
colour (Hazen)	max. 10
insoluble in C_2H_5OH	max. 0,001 %
total nitrogen (as N)	max. 0,001 %
chlorides (Cl)	max. 0,0003 %
chlorates (ClO_3)	max. 0,001 %
phosphates and silicates (as SiO_2)	max. 0,0005 %
sulfates (SO_4)	max. 0,001 %
free chlorine (as Cl)	max. 0,00005 %
aluminium (Al)	max. 0,05 ppm
arsenic (As)	max. 0,05 ppm
barium (Ba)	max. 0,02 ppm
beryllium (Be)	max. 0,02 ppm
bismuth (Bi)	max. 0,1 ppm
cadmium (Cd)	max. 0,05 ppm
calcium (Ca)	max. 0,5 ppm
cobalt (Co)	max. 0,05 ppm
copper (Cu)	max. 0,1 ppm
germanium (Ge)	max. 0,05 ppm
heavy metals (as Pb)	max. 1 ppm
iron (Fe)	max. 1 ppm
lead (Pb)	max. 0,05 ppm
lithium (Li)	max. 0,02 ppm
magnesium (Mg)	max. 0,5 ppm
manganese (Mn)	max. 0,02 ppm
molybdenum (Mo)	max. 0,05 ppm
nickel (Ni)	max. 0,1 ppm
potassium (K)	max. 0,1 ppm
silver (Ag)	max. 0,1 ppm
sodium (Na)	max. 0,5 ppm
strontium (Sr)	max. 0,02 ppm
thallium (Tl)	max. 0,05 ppm
titanium (Ti)	max. 0,1 ppm
vanadium (V)	max. 0,05 ppm
zinc (Zn)	max. 0,1 ppm
zirconium (Zr)	max. 0,1 ppm
substances reducing $KMnO_4$	passes test
residue on ignition (as SO_4)	max. 0,003 %

ART. NO.	VOLUME	CONTAINER
AC17551000	1 l	
AC17551001	1 l	
AC17552500	2,5 l	
AC17552501	2,5 l	