



# Product Specification

## Product Name: PERCHLORIC ACID 70% Premium Reagent

Alternate Name(s)

### Description

Colourless, fuming, hygroscopic liquid.

### Properties

Chemical Formula: HClO<sub>4</sub>

Molecular Weight: 100.46

Product Code: PA421

CAS No.: 7601-90-3

### General Information:

Highly corrosive to most metals. Mixtures with combustible material may ignite spontaneously and, when involved in a fire, may be explosive.

### Hazard and Safety Data

UN Group: I  
Class: 5.1  
UN Number: 1873  
Hazchem code: 2P  
CS MSDS Code: 1CH4Y  
Poison schedule: Not Scheduled  
Emergency  
Procedure Guide No.: 31

### Quality Specification

Assay: 69.0-72.0%

### Specific Properties and Impurities [Typical levels]:

Colour (APHA)	10
Residue after ignition	0.003%
Chloride (Cl)	0.0003%
Free chlorine	0.0005%
Silicate & phosphate (as SiO <sub>2</sub> )	0.0005%
Sulfate (SO <sub>4</sub> )	0.001%
Nitrogen compounds (as N)	0.001%
Heavy metals (as Pb)	0.0001%
Aluminium (Al)	0.00001%
Barium (Ba)	0.00001%
Beryllium (Be)	0.00001%
Bismuth (Bi)	0.00001%
Cadmium (Cd)	0.000005%
Calcium (Ca)	0.00005%
Chromium (Cr)	0.00003%
Cobalt (Co)	0.00001%
Copper (Cu)	0.000005%
Germanium (Ge)	0.000005%
Iron (Fe)	0.0001%
Lead (Pb)	0.00001%
Manganese (Mn)	0.000005%
Molybdenum (Mo)	0.000002%
Nickel (Ni)	0.000005%
Potassium (K)	0.0001%
Silver (Ag)	0.00001%
Sodium (Na)	0.0005%

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Strontium (Sr)	0.00001%
Thallium (Tl)	0.000005%
Titanium (Ti)	0.00001%
Vanadium (V)	0.000002%
Zinc (Zn)	0.00001%
Zirconium (Zr)	0.00001%

CONFORMS TO ACS

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