

Certificate of Analysis

Hydrochloric acid high purity acid for trace analysis

Code No.	HPA-0010- ...		
Lot	2024		
Expiry date	30/03/2020 <small>The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flasks / packages.</small>		
CAS-No.	[7647-01-0]	EINECS	2315957
Formula	H Cl	UN	1789
Molecular weight	36.46 g/mol		

This lot complies with the specification mentioned below.

Specification

Assay	> 36 % min.	Colour (APHA)	< 10
Phosphate	< 0.05 ppm max.	Free chlorine (Cl ₂)	< 0.5 ppm max.
Sulphate	< 0.5 ppm max.	Residue	< 3 ppm max.
Sulphite	< 0.5 ppm max.	Density	1,68 g/mL
Bromide	< 50 ppm max.		

Metals

Aluminium (Al)	< 0.5 ppb	Manganese (Mn)	< 0.1 ppb
Antimony (Sb)	< 0.1 ppb	Mercury (Hg)	< 0.2 ppb
Arsenic (As)	< 0.1 ppb	Molybdenum (Mo)	< 0.1 ppb
Barium (Ba)	< 0.1 ppb	Nickel (Ni)	< 0.1 ppb
Beryllium (Be)	< 0.1 ppb	Potassium (K)	< 0.1 ppb
Bismuth (Bi)	< 0.1 ppb	Selenium (Se)	< 0.1 ppb
Boron (B)	< 1 ppb	Silver (Ag)	< 0.1 ppb
Cadmium (Cd)	< 0.1 ppb	Sodium (Na)	< 0.5 ppb
Calcium (Ca)	< 0.5 ppb	Strontium (Sr)	< 0.1 ppb
Chromium (Cr)	< 0.1 ppb	Thorium (Th)	< 0.1 ppb
Cobalt (Co)	< 0.1 ppb	Tin (Sn)	< 0.1 ppb
Copper (Cu)	< 0.1 ppb	Titanium (Ti)	< 0.1 ppb
Iron (Fe)	< 1 ppb	Uranium (U)	< 0.1 ppb
Lead (Pb)	< 0.1 ppb	Vanadium (V)	< 0.1 ppb
Lithium (Li)	< 0.1 ppb	Zinc (Zn)	< 0.5 ppb
Magnesium (Mg)	< 0.5 ppb	Zirconium (Zr)	< 0.1 ppb

08-02-2018

Martin Schröder (Labmanager)

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