

CERTIFICATE OF ANALYSIS

Product : Hydrochloric Acid ANALPURE® *ULTRA*
 Code : UAc0031
 Batch number : 4223100
 Expiry date : 06/03/2027 (dd/mm/yyyy)

Assay : 34 %

Trace impurities (ppt):

Analyte	Maximum concentration	Actual value	Analyte	Maximum concentration	Actual value
Aluminium	20	< 1	Neodymium	1	< 0.01
Antimony	20	< 0.05	Nickel	20	< 10
Arsenic	50	< 0.1	Niobium	1	< 0.05
Barium	10	< 0.05	Palladium	Information only	< 0.1
Beryllium	10	< 0.05	Platinum	Information only	< 1
Bismuth	10	< 0.02	Potassium	10	< 0.2
Boron	100	< 10	Praseodymium	1	< 0.01
Cadmium	10	< 0.01	Rhenium	10	< 0.01
Calcium	10	< 10	Rhodium	10	< 0.01
Cerium	10	< 0.01	Rubidium	10	< 0.01
Cesium	10	< 0.01	Ruthenium	10	< 0.01
Chromium	10	< 0.5	Samarium	1	< 0.01
Cobalt	10	< 2	Scandium	10	< 0.01
Copper	10	< 1	Selenium	Information only	< 20
Dysprosium	1	< 0.01	Silver	10	< 0.05
Erbium	1	< 0.01	Sodium	10	< 0.5
Europium	1	< 0.01	Strontium	10	< 0.02
Gadolinium	1	< 0.01	Tantalum	Information only	< 0.01
Gallium	10	< 0.05	Tellurium	1	< 0.1
Gold	50	< 1	Terbium	1	< 0.01
Hafnium	10	< 0.01	Thallium	10	< 0.01
Holmium	1	< 0.01	Thorium	1	< 0.01
Indium	1	< 0.05	Thulium	1	< 0.01
Iron	10	< 5	Tin	20	< 0.1
Lanthanum	1	< 0.01	Titanium	10	< 0.1
Lead	10	< 0.05	Tungsten	10	< 0.05
Lithium	10	< 0.05	Uranium	1	< 0.01
Lutetium	10	< 0.01	Vanadium	10	< 0.1
Magnesium	10	< 0.5	Ytterbium	1	< 0.01
Manganese	10	< 0.05	Yttrium	1	< 0.01
Mercury	50	< 20	Zinc	10	< 0.1
Molybdenum	10	< 0.1	Zirconium	10	< 0.01

Store at room temperature, maximum range 15°C to 25°C. Avoid exposure to sunlight or ultraviolet sources.



Release date: 06th March 2024

Person-in-Charge: **Vladimir Patera**