

ROMIL Superpuhtaita happoja

Hydrochloric Acid SpA

Code H396

Standard Pack 500ml 1LT 2½LT (F-treated glass)

HCl MW 36.46 d 1.18 CAS [7647-01-0]

Assay 34-37%

Colour <10 Hazen (APHA)

Ba, Be, Bi, Cd, Ce, Co, Cs, Dy, Er, Eu, Ga, Gd, Hf, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Pb, Pr, Rb, Re, Rh, Ru, Sc, Sm, Sr, Tb, Te, Th, Tl, Tm, U, W, Y, Yb, Zr <0.1 ppb each

As, Au, Cr, Cu, Hg, Mg, Ni, Sb, Sn, Ti, V <0.5 ppb each

Ag, Al, B, Ca, Fe, K, Na, Se, Zn <1 ppb each

Total P <0.01 ppm

Total S <0.3 ppm

Free Cl₂ <0.5 ppm

Br <10 ppm

Application: Environment Analysis (eg, using AAS, ICP-AES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry
Elemental impurities specified at time of manufacture; some will increase on storage, particularly: Al, B, Ca, K, Mg, Mn, Na, Si.

Typical values, elemental impurities at time of manufacture (ppb):

Ag	<0.1	Cs	<0.1	La	<0.1	Pt	<0.5	Te	<0.1
Al	<0.5	Cu	<0.1	Li	<0.1	Rb	<0.1	Th	<0.1
As	<0.1	Dy	<0.1	Lu	<0.1	Re	<0.1	Ti	<0.1
Au	<0.1	Er	<0.1	Mg	<0.5	Rh	<0.1	Tl	<0.1
B	<0.5	Eu	<0.1	Mn	<0.1	Ru	<0.1	Tm	<0.1
Ba	<0.1	Fe	<0.5	Mo	<0.1	Sb	<0.1	U	<0.1
Be	<0.1	Ga	<0.1	Na	<0.5	Sc	<0.1	V	<0.1
Bi	<0.1	Gd	<0.1	Nb	<0.1	Se	<0.1	W	<0.1
Ca	<0.5	Hf	<0.1	Nd	<0.1	Sm	<0.1	Y	<0.1
Cd	<0.1	Hg	<0.2	Ni	<0.1	Sn	<0.1	Yb	<0.1
Ce	<0.1	Ho	<0.1	Pb	<0.1	Sr	<0.1	Zn	<0.5
Co	<0.1	In	<0.1	Pd	<0.5	Ta	<0.5	Zr	<0.1
Cr	<0.1	K	<0.1	Pr	<0.1	Tb	<0.1		

Hydrofluoric Acid SpA

Code H405

Standard Pack 500ml (LDPE)

HF MW 20.01 d 1.16 CAS [7664-39-3]

Assay 47-51%

Colour <10 Hazen (APHA)

Ba, Be, Bi, Cd, Ce, Co, Cs, Dy, Er, Eu, Ga, Gd, Ge, Hf, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Pb, Pr, Rb, Re, Rh, Ru, Sc, Sm, Sr, Tb, Te, Th, Tl, Tm, U, V, Y, Yb, Zr <0.1 ppb each

Au, Pd, Pt, Sb <0.2 ppb each

Ag, As, Cu, Ni, Sn, W <0.5 ppb each

Al, B, Ca, Cr, Fe, Hg, K, Mg, Na, Se, Ti, Zn <1 ppb each

Total P <0.05 ppm

Total S <0.1 ppm

Cl <4 ppm

SiF₆ <20 ppm

Application: Environment Analysis (eg, using AAS, ICP-AES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry
Elemental impurities specified at time of manufacture; some will increase on storage, particularly: Al, Ca, Fe, Na, Zn.

For treatment of HF burns, calcium gluconate gel (ROMIL Code PCG9V) is recommended. In order to provide emergency first aid, it should be kept wherever HF is handled or stored.

Typical values, elemental impurities at time of manufacture (ppb):

Ag	<0.1	Cs	<0.1	K	<0.2	Pr	<0.1	Tb	<0.1
Al	<0.5	Cu	<0.1	La	<0.1	Pt	<0.2	Te	<0.1
As	<0.1	Dy	<0.1	Li	<0.1	Rb	<0.1	Th	<0.1
Au	<0.1	Er	<0.1	Lu	<0.1	Re	<0.1	Ti	<0.5
B	<0.5	Eu	<0.1	Mg	<0.2	Rh	<0.1	Tl	<0.1
Ba	<0.1	Fe	<0.5	Mn	<0.1	Ru	<0.1	Tm	<0.1
Be	<0.1	Ga	<0.1	Mo	<0.1	Sb	<0.1	U	<0.1
Bi	<0.1	Gd	<0.1	Na	<0.5	Sc	<0.1	V	<0.1
Ca	<0.5	Ge	<0.1	Nb	<0.1	Se	<0.1	W	<0.5
Cd	<0.1	Hf	<0.1	Nd	<0.1	Sm	<0.1	Y	<0.1
Ce	<0.1	Hg	<0.05	Ni	<0.1	Sn	<0.1	Yb	<0.1
Co	<0.1	Ho	<0.1	Pb	<0.1	Sr	<0.1	Zn	<0.1
Cr	<0.1	In	<0.1	Pd	<0.2	Ta	<0.5	Zr	<0.1

Hydrogen Peroxide SpA

Code H416

Standard Pack 1LT (HDPE)

H₂O₂ MW 34.01 d 1.10 CAS [7722-84-1]

Assay ca. 30%

Colour <10 Hazen (APHA)

Elemental impurities at time of manufacture:

Ag, As, Cd, Cr, Co, Cu, Li, Mo, Ni, Sb, V <10 ppb each

Ba, Bi, Be, Mg, Pb, Sr, Ti, Zn <20 ppb each

B, Sn, Zr <50 ppb each

Ca, Fe <200 ppb each

K, Na <2000 ppb each

Application: Environment Analysis (eg, using AAS, ICP-AES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry

Typical values, elemental impurities at time of manufacture (ppb):

Ag	<0.1	Cd	<0.1	Mg	<10	Sn	<50
Al	n/a	Co	<0.1	Mn	n/a	Sr	<1
As	<0.1	Cr	<5	Mo	<5	Th	n/a
B	<5	Cu	<5	Na	<20	Ti	<1
Ba	<1	Fe	<50	Ni	<5	U	n/a
Be	<0.5	Hg	n/a	Pb	<10	V	<5
Bi	<1	K	<5	Sb	<5	Zn	<10
Ca	<100	Li	<1	Se	n/a	Zr	<0.1

As a safety measure we fit bottles with a closure featuring a venting valve.

Nitric Acid SpA

Code H566

Standard Pack 500ml 1LT 2½LT (F-treated glass)

HNO₃ MW 63.01 d 1.42 CAS [7697-37-2]

Assay 67-69%

Colour <10 Hazen (APHA)

Ag, Au, Ba, Be, Bi, Ce, Cs, Dy, Er, Eu, Ga, Gd, Ge, Hf, Hg, Ho, In, La, Li, Lu, Mn, Mo, Nb, Nd, Pb, Pr, Rb, Re, Sc, Sm, Sr, Tb, Te, Th, Tl, Tm, U, W, Y, Yb, Zr <0.1 ppb each

As, Cd, Co, Cu, Ni, Pd, Pt, Rh, Ru, Sb, Sn, Ti, V, Zn <0.5 ppb each

Al, B, Ca, Cr, Fe, K, Mg, Na, Se <1 ppb each

Total P <0.01 ppm

Cl <0.2 ppm

Total S <0.3 ppm

Store in dark.

Application: Environment Analysis (eg, using AAS, ICP-AES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry

Elemental impurities specified at time of manufacture; some will increase on storage, particularly: Al, B, Ca, K, Mg, Mn, Na, Si.

Concentrated Nitric Acid can decompose to nitrogen oxides (NO_x) through action of heat or light resulting in a yellow colouration.

However, this does not affect the performance of the acid with respect to trace metals or oxidising power. Storage in a cool, dark place is recommended.

Typical values, elemental impurities at time of manufacture (ppb):

Ag	<0.1	Cs	<0.1	K	<0.2	Pr	<0.1	Tb	<0.1
Al	<0.5	Cu	<0.1	La	<0.1	Pt	<0.1	Te	<0.1
As	<0.1	Dy	<0.1	Li	<0.1	Rb	<0.1	Th	<0.1
Au	<0.1	Er	<0.1	Lu	<0.1	Re	<0.1	Ti	<0.1
B	<0.5	Eu	<0.1	Mg	<0.2	Rh	<0.1	Tl	<0.1
Ba	<0.1	Fe	<0.5	Mn	<0.1	Ru	<0.1	Tm	<0.1
Be	<0.1	Ga	<0.1	Mo	<0.1	Sb	<0.1	U	<0.1
Bi	<0.1	Gd	<0.1	Na	<0.2	Sc	<0.1	V	<0.1
Ca	<0.5	Ge	<0.1	Nb	<0.1	Se	<0.1	W	<0.1
Cd	<0.1	Hf	<0.1	Nd	<0.1	Sm	<0.1	Y	<0.1
Ce	<0.1	Hg	<0.02	Ni	<0.1	Sn	<0.1	Yb	<0.1
Co	<0.1	Ho	<0.1	Pb	<0.1	Sr	<0.1	Zn	<0.2
Cr	<0.5	In	<0.1	Pd	<0.1	Ta	<0.1	Zr	<0.1



Sulphuric Acid SpA

Code H691

Standard Pack 500ml 2½LT (F-treated glass)

H2SO4 MW 98.07 d 1.84 CAS [7664-93-9]

Assay 93-98%

Colour <10 Hazen (APHA)

Ba, Be, Bi, Dy, Er, Eu, Ga, Gd, Hf, Ho, La, Lu, Nd, Pb, Pr, Sc, Sm, Tb, Te, Th, Tm, U <0.1 ppb each

Au, Cd, Ce, Co, Cr, Cs, Cu, In, Li, Mn, Mo, Nb, Ni, Rb, Rh, Sr, Tl, V, W, Y, Yb, Zr <0.5 ppb each

Ag, Al, As, Ca, Fe, Ge, Hg, K, Mg, Na, Sb, Sn, Ti, Zn <1 ppb each

Se <10 ppb

Total P <0.05 ppm

NO3 <0.2 ppm

Cl <0.7 ppm

Substances reducing permanganate <20 ppm

Application: Environment Analysis (eg, using AAS, ICP-AES, ICP-MS), Trace Metal Analysis, Ion Chromatography, Voltammetry

Elemental impurities specified at time of manufacture; some will increase on storage, particularly: Al, B, Ca, K, Mg, Mn, Na, Si.

Typical values, elemental impurities at time of manufacture (ppb):

Ag	<0.1	Cu	<0.1	La	<0.1	Pt	<0.5	Ti	<0.5
Al	<0.5	Dy	<0.1	Li	<0.1	Rb	<0.5	Tl	<0.5
As	<1	Er	<0.1	Lu	<0.1	Rh	<0.5	Tm	<0.1
Au	<0.1	Eu	<0.1	Mg	<0.5	Sb	<1	U	<0.1
Ba	<0.1	Fe	<0.5	Mn	<0.5	Sc	<0.1	V	<0.1
Be	<0.1	Ga	<0.1	Mo	<0.1	Se	<5	W	<0.5
Bi	<0.1	Gd	<0.1	Na	<0.5	Sm	<0.1	Y	<0.5
Ca	<0.5	Ge	<0.1	Nb	<0.5	Sn	<0.1	Yb	<0.5
Cd	<0.1	Hf	<0.1	Nd	<0.1	Sr	<0.1	Zn	<0.2
Ce	<0.5	Hg	<1	Ni	<0.1	Ta	<0.5	Zr	<0.1
Co	<0.1	Ho	<0.1	Pb	<0.1	Tb	<0.1		
Cs	<0.5	K	<0.5	Pr	<0.1	Th	<0.1		