

ROMMA
PURE CHEMISTRY



ROMIL-UpA™ Ultra Purity Acids and Reagents Specifications

Hydro uoric Acid UpA

SS52

500ml SS52P
Dgr H:300+310+330-314
P:280-301+330+331-302+352-
304+340-305+351+338-
310+ROP 010



HFMW20.01d 1.16CAS[7664-39-3]
Assay 47-51%

Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certificate of Analysis

Application: Ultra trace inorganic analysis

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 (ppt):

Ag <1 Cs <0.5 K <10 Pr <0.1 Tb <0.1
Al <10 Cu <10 La <0.1 Pt <10 Te <1
As <10 Dy <0.1 Li <1 Rb <1 Th <0.1
Au <10 Er <0.1 Lu <0.1 Re <0.1 Ti <10
B <10 Eu <0.1 Mg <5 Rh <1 Tl <0.1
Ba <5 Fe <10 Mn <1 Ru <1 Tm <0.1
Be <5 Ga <1 Mo <5 Sb <10 U <0.1
Bi <0.1 Gd <0.1 Na <10 Sc <1 V <1
Ca <10 Ge <1 Nb <5 Se <50 W <10
Cd <0.1 Hf <1 Nd <0.1 Sm <0.1 Y <0.5
Ce <0.1 Hg <20 Ni <10 Sn <10 Yb <0.1
Co <1 Ho <0.1 Pb <1 Sr <1 Zn <5
Cr <10 In <0.1 Pd <10 Ta <20 Zr <10

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

TotalS <50

Hydrogen Peroxide UpA

SS92

500ml SS92P
Dgr H:302-318
P:280e-305+351+338-313



H2O2 MW34.01 d 1.10CAS [7722-84-1]
Assay 30-32%

Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certificate of Analysis

Application: Ultra trace inorganic analysis

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

Ag <10 Cs <1 K <10 Pr <0.5	Te <1
Al <10 Cu <5 La <0.5 Rb <5	Th <0.5
As <10 Dy <0.5 Li <1 Re <5	Ti <10
Au <10 Er <0.5 Lu <0.5 Rh <5	Tl <1
B <100 Eu <0.5 Mg <10 Ru <10	Tm <0.5
Ba <5 Fe <20 Mn <5 Sb <1	U <0.5
Be <5 Ga <5 Mo <5 Sc <10	V <5
Bi <10 Gd <0.5 Na <10 Se <50	W <10
Ca <50 Ge <10 Nb <1 Sm <0.5	Y <1
Cd <1 Hf <1 Nd <0.5 Sn <10	Yb <0.5
Ce <1 Hg <20 Ni <10 Sr <1	Zn <10
Co <5 Ho <0.5 Pb <1 Ta <10	Zr <5
Cr <5 In <0.5 Pd <10 Tb <0.5	

Nitric Acid UpA

SS12

500ml SS12P
Dgr H:272-290-331-314-EUH071
P:260c-280c-301+330+331-
305+351+338-309+310



HNO3 MW63.01 d1.42CAS [7697-37-2]
Assay 67-69%

Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certificate of Analysis

Store in dark.

Application: Ultra trace inorganic analysis

Concentrated Nitric Acid can decompose nitrogen oxides (NOx) 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 (ppt):

Ag <2 Cs <0.05 K <5 Pr <0.05 Tb <0.01
Al <10 Cu <3 La <0.05 Pt <1 Te <1
As <10 Dy <0.01 Li <1 Rb <1 Th <0.05
Au <10 Er <0.01 Lu <0.01 Re <1 Ti <10
B <10 Eu <0.01 Mg <5 Rh <1 Tl <0.1
Ba <1 Fe <10 Mn <2 Ru <10 Tm <0.01
Be <5 Ga <1 Mo <1 Sb <10 U <0.01
Bi <0.1 Gd <0.01 Na <5 Sc <1 V <1
Ca <10 Ge <1 Nb <1 Se <20 W <5
Cd <1 Hf <0.05 Nd <0.05 Sm <0.01 Y <1
Ce <0.05 Hg <20 Ni <10 Sn <10 Yb <0.01
Co <1 Ho <0.01 Pb <1 Sr <1 Zn <5
Cr <10 In <1 Pd <10 Ta <10 Zr <1

Perchloric Acid UpA

SS22

500ml SS22P
Dgr H:271-290-314
P:210-221-280c-301+330+331-
305+351+338-309+310



HClO4 MW100.46 d1.66CAS[7601-90-3]

Assay 65-71%

Trace elemental impurities: parts per trillion level
Batch values reported on accompanying Certificate of Analysis

Application: Ultra trace inorganic analysis

ROMIL-UpA™ Ultra Purity Acids and Reagents Specifications

Sulphuric Acid UpA

SS32

 500ml SS32P
 Dgr H:290-314
 P:280c-301+330+331-305+351+338-
 309+310

 H₂SO₄ MW98.07 d1.84CAS [7664-93-9]


Assay 93-98%

Trace elemental impurities: parts per trillion level

Batch values reported on accompanying Certi cate of Analysis

Application: Ultra trace inorganic analysis

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

Ag <5 Dy <0.1 Li <10 Rb <1	Tl <1
Al <30 Er <0.1 Lu <0.1 Rh <1	Tm <0.1
As <500 Eu <0.1 Mg <10 Sb <10	U <0.1
Ba <10 Fe <30 Mn <1 Sc <5	V <5
Be <5 Ga <1 Mo <10 Se <500	W <5
Bi <1 Gd <0.1 Na <30 Sm <0.1	Y <1
Ca <50 Ge <100 Nb <1 Sn <50	Yb <0.1
Cd <1 Hf <0.1 Nd <0.1 Sr <1	Zn <20
Ce <0.1 Hg <50 Ni <20 Ta <20	Zr <5
Co <1 Ho <0.1 Pb <5 Tb <0.1	
Cr <10 In <1 Pd <10 Te <10	
Cs <1 K <50 Pr <0.1 Th <0.1	
Cu <5 La <1 Pt <10 Ti <50	

Water UpA

SS02

1LT SS02M

 H₂O MW18.02 FP0.0°C BP 100.0°C CAS [7732-18-5]


Trace elemental impurities: parts per trillion level

Trace anionic impurities: parts per billion level

Batch values reported on accompanying Certi cate of Analysis

Equivalent to ASTM D1193 Type I

Application: Ultra trace inorganic analysis

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

Ag <5 Cs <0.1 K <10 Pr <0.1	Tb <0.1
Al <20 Cu <5 La <0.1 Pt <1	Te <1
As <10 Dy <0.1 Li <1 Rb <1	Th <0.1
Au <10 Er <0.1 Lu <0.1 Re <1	Ti <10
B <20 Eu <0.1 Mg <5 Rh <1	Tl <0.1
Ba <1 Fe <10 Mn <1 Ru <1	Tm <0.1
Be <5 Ga <1 Mo <1 Sb <10	U <0.1
Bi <0.1 Gd <0.1 Na <10 Sc <1	V <1
Ca <10 Ge <1 Nb <1 Se <50	W <10
Cd <1 Hf <0.1 Nd <0.1 Sm <0.1	Y <1
Ce <0.1 Hg <20 Ni <10 Sn <10	Yb <0.1
Co <1 Ho <0.1 Pb <1 Sr <1	Zn <10
Cr <10 In <1 Pd <5 Ta <10	Zr <1

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

Cl <1 PO₄ <1 SO₄ <1