

SCP SCIENCE

Providing Innovative Solutions to Analytical Chemists

Instrument Solutions

Technology for Your Success!

PlasmaPURE TRACE METAL GRADE ACIDS

PlasmaPURE ACIDS & REAGENTS

No more glass bottles

- Supplied in shatter proof plastic (no need for safety coating)
- Lighter for easier transport to the lab

PlasmaPURE acids are manufactured with trace metal impurities less than 1 ppb.

Intended for analysis above 1ppb using ICP, ICPMS, flame AA or graphite furnace AA.

Sold in individual bottles with volume discounts for larger orders.

Complete with a Certificate of Analysis with lot number, expiry date, and actual concentration of over 60 elements:

- Complete documentation for audit purposes

2 expiry dates (up to 3 years unopened & 15 months opened):

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PlasmaPURE

Certificate of Analysis

Hydrochloric Acid (34 - 37% HCl)

Catalogue Number: 250-038-151 / 250-038-155
 Lot Number: SCA2095861
 Assay (HCl w/w): 35%
 Colour (APHA): < 10 (Specification: Max 10)
 Expiry Date: December 2014

Open Bottle Expiry Information

15 months after opening, up to unopened expiration date

Date bottle opened:

Analyte	Maximum Specification	Actual Value (in ppb)	Analyte	Maximum Specification	Actual Value (in ppb)
Aluminum (Al)	1 ppb	< 0.5	Neodymium (Nd)	0.1 ppb	< 0.1
Antimony (Sb)	0.5 ppb	< 0.1	Nickel (Ni)	0.5 ppb	< 0.1
Arsenic (As)	0.5 ppb	< 0.1	Niobium (Nb)	0.1 ppb	< 0.1
Barium (Ba)	0.1 ppb	< 0.1	Palladium (Pd)	Information Only	< 0.5
Beryllium (Be)	0.1 ppb	< 0.1	Platinum (Pt)	Information Only	< 0.5
Bismuth (Bi)	0.1 ppb	< 0.1	Potassium (K)	1 ppb	< 0.1
Boron (B)	1 ppb	< 0.5	Praseodymium (Pr)	0.1 ppb	< 0.1
Cadmium (Cd)	0.1 ppb	< 0.1	Rhenium (Re)	0.1 ppb	< 0.1
Calcium (Ca)	1 ppb	< 0.1	Rhodium (Rh)	0.1 ppb	< 0.1
Carbon (C)	0.1 ppb	< 0.1	Rubidium (Rb)	0.1 ppb	< 0.1
Cerium (Ce)	0.1 ppb	< 0.1	Ruthenium (Ru)	0.1 ppb	< 0.1
Chromium (Cr)	0.5 ppb	< 0.1	Samarium (Sm)	0.1 ppb	< 0.1
Cobalt (Co)	0.1 ppb	< 0.1	Selenium (Se)	0.1 ppb	< 0.1
Copper (Cu)	0.5 ppb	< 0.1	Silver (Ag)	1 ppb	< 0.1
Dysprosium (Dy)	0.1 ppb	< 0.1	Sodium (Na)	1 ppb	< 0.5
Erbium (Er)	0.1 ppb	< 0.1	Strontium (Sr)	0.1 ppb	< 0.1
Eurium (Eu)	0.1 ppb	< 0.1	Tantalum (Ta)	Information Only	< 1
Gadolinium (Gd)	0.1 ppb	< 0.1	Tellurium (Te)	0.1 ppb	< 0.1
Gallium (Ga)	0.1 ppb	< 0.1	Titanium (Ti)	0.1 ppb	< 0.1
Gold (Au)	0.5 ppb	< 0.1	Thallium (Tl)	0.1 ppb	< 0.1
Helium (He)	0.1 ppb	< 0.1	Thorium (Th)	0.1 ppb	< 0.1
Hydrogen (H)	0.1 ppb	< 0.1	Thulium (Tm)	0.1 ppb	< 0.1
Indium (In)	0.1 ppb	< 0.1	Tin (Sn)	0.5 ppb	< 0.1
Iron (Fe)	1 ppb	< 0.5	Tungsten (W)	0.1 ppb	< 0.1
Lead (Pb)	0.1 ppb	< 0.1	Uranium (U)	0.5 ppb	< 0.1
Lanthanum (La)	0.1 ppb	< 0.1	Vanadium (V)	0.5 ppb	< 0.1
Lithium (Li)	0.1 ppb	< 0.1	Ytterbium (Yb)	0.1 ppb	< 0.1
Lutetium (Lu)	0.1 ppb	< 0.1	Zinc (Zn)	1 ppb	< 0.5
Magnesium (Mg)	0.5 ppb	< 0.1	Zirconium (Zr)	0.1 ppb	< 0.1
Manganese (Mn)	0.1 ppb	< 0.1			
Mercury (Hg)	0.1 ppb	< 0.02			
Molybdenum (Mo)	0.1 ppb	< 0.1			

Analyte	Maximum Specification	Actual Value (in ppm)	Analyte	Maximum Specification	Actual Value (in ppm)
Toluene Sulfur (S)	10 ppm	< 10	Free Chlorine (Cl)	0.5 ppm	< 0.3
Free Chlorine (Cl)	0.01 ppm	< 0.01			

Certification Date: December 23, 2011

Chemist:

Use the risk of trace metal contamination: the inner pack of plastic bags and bottle should be opened under clean air (e.g. nitrogen) to ensure the integrity of the product. The user should always wear eye protection, plastic gloves, and use the Material Safety Data Sheet and the Certificate of Analysis in addition to our own SCP SCIENCE (1102) accreditation (EPA method 8210-MSA).

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ORDERING INFORMATION

DESCRIPTION	ASSAY	500 ml	2.5 L	4 L
Hydrochloric Acid	34 - 37% HCl	250-038-151	250-038-155	250-037-159
Hydrofluoric Acid**	47 - 51% HF	250-038-161*	---	250-037-169*
Nitric Acid	67 - 70% HNO ₃	250-038-171	250-038-175	---
Sulphuric Acid	93 - 96% H ₂ SO ₄	250-038-181	250-038-185	---
Ammonia Solution	20 - 22% NH ₃	250-038-191	---	250-037-199

* Packaged in LDPE Bottle



PlasmaPURE Plus OPTIMA GRADE ACIDS & REAGENTS

PlasmaPURE Plus acids are manufactured with trace metal impurities less than 10 ppt (0.01 ppb)

Packaged in Class 10 cleanroom conditions
• Supplied in preleached Teflon® bottles for optimum purity

Intended for analysis below 1 ppb by ICP, ICPMS, or graphite furnace AA

Available in sizes from 250 ml to 2 liters
• Flexibility - Buy only what is required
• Volume discounts available

Complete with a Certificate of Analysis with lot number, expiry date and actual concentration or over 60 elements
• Complete documentation for audit purposes

Certificate of Analysis

PlasmaPURE Plus Hydrochloric Acid (32-35% HCl)

Catalogue Number: 250-036-113/250-036-115
250-036-117/250-036-119
Lot Number: SCP123655
Assay (HCl w/w): 34%
Expiry Date: February 2008

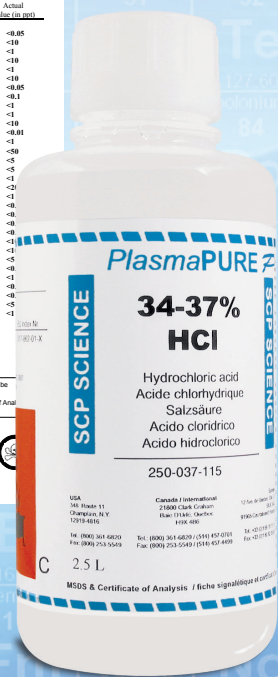
Opened Bottle Expiry Information
15 months after opening, up to unopened expiration date
Date bottle opened

Analyte	Maximum Specification (ppb)	Actual Value (ppb)	Analyte	Maximum Specification (ppb)	Actual Value (ppb)
Aluminium (Al)	20	<10	Niobium (Nb)	1	<0.05
Antimony (Sb)	20	<20	Nickel (Ni)	50	<10
Arsenic (As)	50	<20	Niobium (Nb)	1	<1
Barium (Ba)	10	<1	Palladium (Pd)	Information Only	<10
Beryllium (Be)	10	<5	Platinum (Pt)	Information Only	<1
Bismuth (Bi)	10	<0.05	Praseodymium (Pr)	10	<1
Boron (B)	100	<10	Praseodymium (Pr)	1	<0.05
Calcium (Ca)	10	<0.1	Rhenium (Re)	10	<0.1
Calcium (Ca)	20	<10	Rhodium (Rh)	10	<1
Cerium (Ce)	10	<0.05	Rubidium (Rb)	10	<1
Cesium (Cs)	10	<0.05	Rubidium (Rb)	10	<10
Chromium (Cr)	20	<10	Samarium (Sm)	1	<0.01
Cobalt (Co)	10	<5	Scandium (Sc)	10	<1
Copper (Cu)	20	<3	Selenium (Se)	Information Only	<50
Dysprosium (Dy)	1	<0.01	Silver (Ag)	10	<5
Erbium (Er)	1	<0.01	Sodium (Na)	10	<5
Eurprium (Eu)	1	<0.01	Strontium (Sr)	10	<5
Gadolinium (Gd)	1	<0.01	Tellurium (Te)	Information Only	<20
Gallium (Ga)	10	<1	Tellurium (Te)	1	<1
Germanium (Ge)	0	N/A	Thallium (Tl)	1	<0
Gold (Au)	100	<10	Thallium (Tl)	10	<0
Hafnium (Hf)	10	<0.05	Thorium (Th)	1	<0
Holmium (Ho)	1	<0.01	Thallium (Tl)	1	<0
Indium (In)	1	<0.1	Tin (Sn)	20	<1
Iron (Fe)	20	<10	Titanium (Ti)	20	<1
Lanthanum (La)	1	<0.05	Tungsten (W)	10	<5
Lead (Pb)	10	<1	Uranium (U)	1	<0
Lithium (Li)	10	<1	Vanadium (V)	10	<1
Lutetium (Lu)	10	<0.01	Vanadium (V)	1	<0
Magnesium (Mg)	10	<5	Yttrium (Y)	1	<0
Manganese (Mn)	10	<2	Zinc (Zn)	20	<5
Mercury (Hg)	100	<100	Zirconium (Zr)	10	<1
Molybdenum (Mo)	10	<5			

Certified by: *Alketa Masha, Chemist* Certification Date: May 4, 2005

To maintain product integrity and reduce the risk of trace metal contamination, the inner pack of plastic bags and bottles should be opened under CLASS 100 particle conditions to maintain the integrity of the product. The use of safety apparel, as well as eye protection, plastic gloves, hair net and a clean room suit is also advised. The Material Safety Data Sheet and this Certificate of Analysis are available on our web site. (Equipment disposable or hazardous)

Manufactured according to an ISO 9001:2000 Quality System and ISO 17025 (in-process)
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Web Site: www.scpscience.com



ORDERING INFORMATION

DESCRIPTION	ASSAY	250 ml	500 ml	1 L	2 L
Acetic Acid	>99% CH ₃ COOH	250-036-101	250-036-103	250-036-105	---
Ammonia Solution	20 - 22% NH ₃	250-036-107	250-036-109	250-036-111	---
Hydrochloric Acid	33 - 36% HCl	250-036-113	250-036-115	250-036-117	250-036-119
Hydrofluoric Acid	47-51% HF	250-036-121	250-036-123	250-036-125	250-036-127
Hydrogen Peroxide	30% H ₂ O ₂	---	250-036-145	---	---
Nitric Acid	67 - 70% HNO ₃	250-036-129	250-036-131	250-036-133	250-036-135
Sulphuric Acid	93 - 98% H ₂ SO ₄	250-036-137	250-036-139	250-036-141	250-036-143
PlasmaPURE Plus Dispenser	---				250-036-501

Authorised Distributor:

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