## thermoscientific



# Thermo Scientific acids for trace elemental analysis by ICP-OES

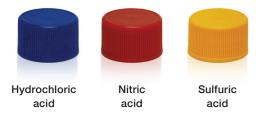
With metal impurities in the low ppb range,
Thermo Scientific™ ICP-OES-grade acids are suitable for
digestion of samples prior to trace elemental analysis by
inductively coupled plasma optical emission spectrometry
(ICP-OES). We offer the most-used acids for sample
digestion, and in the purity needed for your analysis.

- Low metal impurities fall within instruments' limits of detection
- Up to 36 metals specified and tested in the low-ppb range
- Products also meet ACS testing specifications
- Offered in 500 mL and 2.5 L sizes to optimize reagent consumption with sample throughput
- Packaged in polycoated glass bottles with color-coded caps specific to the acid for added safety and quick visual recognition

#### **Application example**

ICP-OES is a fast, multielement analysis technique capable of determining up to 72 elements in a very wide range of samples, including environmental, metallurgical, petrochemical, and food samples.

With detection limit requirements from ppm to ppb levels, the Thermo Scientific™ iCAP™ 7000 Series ICP-OES system is the laboratory workhorse for multielement analysis, providing stable, efficient, and low-cost elemental analysis for all facilities. It is your simplified route to compliance in environmental, pharmaceutical, and food safety fields, and a robust solution for exploratory or QA/QC industrial applications. High-performance ICP-OES deserves excellent reagents. Our combined strengths in reagents and instrumentation enable us to offer superior quality to help you achieve optimum performance with the best results.





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#### **Product specifications\***

	Hydrochloric acid	Nitric acid	Sulfuric acid		
	Cat. No. T00308	Cat. No. T00309	Cat. No. T00311		
Metal	Assay: 37.0-38.0%	Assay: 69.0-70.0%	Assay: 95.0-98.0%		
	Maximum impurities in ppb (ng/g)				
Aluminum (Al)	10	30	30		
Arsenic (As)	10		4		
Barium (Ba)	10	1	10		
Boron (B)	10	4	10		
Cadmium (Cd)	10	1	2		
Calcium (Ca)	10	50	50		
Chromium (Cr)	10	10	6		
Cobalt (Co)		1	0.5		
Copper (Cu)	10	1	1		
Gallium (Ga)		20	10		
Germanium (Ge)		4	10		
Gold (Au)		4	10		
Iron (Fe)	10		50		
Lead (Pb)	10	0.5	0.5		
Lithium (Li)	10		10		
Magnesium (Mg)	10	7	7		
Manganese (Mn)	10	1	1		

	Hydrochloric acid	Nitric acid	Sulfuric acid		
	Cat. No. T00308	Cat. No. T00309	Cat. No. T00311		
Metal	Assay: 37.0-38.0%	Assay: 69.0-70.0%	Assay: 95.0-98.0%		
	Maximum impurities in ppb (ng/g)				
Mercury (Hg)	1	0.5	5		
Molybdenum (Mo)		5	10		
Nickel (Ni)	10	1	2		
Niobium (Nb)		1	10		
Potassium (K)	10	5	500		
Selenium (Se)			50		
Silicon (Si)		20	100		
Silver (Ag)		1	1		
Sodium (Na)	10	200	500		
Strontium (Sr)		1	5		
Tantalum (Ta)		2	10		
Thallium (TI)		5	20		
Tin (Sn)	10	5	5		
Titanium (Ti)	10		10		
Vanadium (V)	10	1	10		
Zinc (Zn)	10	5	5		
Zirconium (Zr)		1	10		

<sup>\*</sup> Not all metal impurities or specifications are listed in this table.

#### **Ordering information**

Product	Quantity	Package	Cat. No.
Lhidrachlaria said ICD OFC for trace elemental anglicia	500 mL	Polycoated glass bottle	T003080500
Hydrochloric acid, ICP-OES, for trace elemental analysis	2.5 L	Polycoated glass bottle	T003082500
Nitrio anid ICD OFC for trans alamantal analysis	500 mL	Polycoated glass bottle	T003090500
Nitric acid, ICP-OES, for trace elemental analysis	2.5 L	Polycoated glass bottle	T003092500
Cultivia axid ICD OFC for trans alamantal analysis	500 mL	Polycoated glass bottle	T003110500
Sulfuric acid, ICP-OES, for trace elemental analysis	2.5 L	Polycoated glass bottle	T003112500

### For more information or to place an order, go to fishersci.com

#### In the United States:

For customer service, call 1-800-766-7000 To fax an order, use 1-800-926-1166 To order online: fishersci.com

#### In Canada:

For customer service, call 1-800-234-7437 To fax an order, use 1-800-463-2996

To order online: fishersci.ca

