



Fisher Chemical

TRACEMETAL GRADE HYDROCHLORIC ACID SPECIFICATION

<i>Fisher Chemical</i>	Maximum Specifications		
TraceMetal Grade	TraceMetal Grade Hydrochloric Acid, A508		
Assay (HCl, w/w)	34 - 37%		
Colour (APHA)	10		
Analyte	Trace Impurities (in ppb)	Analyte	Trace Impurities (in ppb)
Aluminum (Al)	1	Neodymium (Nd)	0.1
Antimony (Sb)	0.5	Nickel (Ni)	0.5
Arsenic (As)	0.5	Niobium (Nb)	0.1
Barium (Ba)	0.1	Palladium (Pd)	Information Only
Beryllium (Be)	0.1	Platinum (Pt)	Information Only
Bismuth (Bi)	0.1	Potassium (K)	1
Boron (B)	1	Praseodymium (Pr)	0.1
Cadmium (Cd)	0.1	Rhenium (Re)	0.1
Calcium (Ca)	1	Rhodium (Rh)	0.1
Cerium (Ce)	0.1	Rubidium (Rb)	0.1
Cesium (Cs)	0.1	Ruthenium (Ru)	0.1
Chromium (Cr)	0.5	Samarium (Sm)	0.1
Cobalt (Co)	0.1	Scandium (Sc)	0.1
Copper (Cu)	0.5	Selenium (Se)	
Dysprosium (Dy)	0.1	Silver (Ag)	
Erbium (Er)	0.1	Sodium (Na)	
Europium (Eu)	0.1	Strontium (Sr)	0.1
Gadolinium (Gd)	0.1	Tantalum (Ta)	Information Only
Gallium (Ga)	0.1	Tellurium (Te)	0.1
Gold (Au)	0.5	Terbium (Tb)	0.1
Hafnium (Hf)	0.1	Thallium (Tl)	0.1
Holmium (Ho)	0.1	Thorium (Th)	0.1
Indium (In)	0.1	Thulium (Tm)	0.1
Iron (Fe)	1	Tin (Sn)	0.5
Lanthanum (La)	0.1	Titanium (Ti)	0.5
Lead (Pb)	0.1	Tungsten (W)	0.1
Lithium (Li)	0.1	Uranium (U)	0.1
Lutetium (Lu)	0.1	Vanadium (V)	0.5
Magnesium (Mg)	0.5	Ytterbium (Yb)	0.1
Manganese (Mn)	0.1	Yttrium (Y)	0.1
Mercury (Hg)	0.1	Zinc (Zn)	1
Molybdenum (Mo)	0.1	Zirconium (Zr)	0.1
Analyte	Trace Impurities (in ppm)		
Free Chlorine (Cl ₂)	0.5	Total Sulphur (S)	0.3
Total Phosphorus (P)	0.01	Bromide (Br)	10

HCl (34 - 37%): Properties

Molar Mass: 3 6.46g/mol

Density: 1.18 g/ml

Molarity: 12 moles/litre

Normality: 12 moles/litre



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