

Technical Datasheet

Article No. 863

Sulfuric acid superpure for trace analysis
93.0–98.0 % H₂SO₄

For laboratory use.

Parameter	Value
Appearance	clear liquid
Density	1.84 g/ml
Mol.-Weight	98.07 g/mol
Boiling point	295–315 °C
Colour (APHA)	max. 10
Chloride (Cl)	max. 0.7 ppm
Nitrate (NO ₃)	max. 0.2 ppm
Total phosphorus (P)	max. 0.05 ppm
Substances reducing KMnO ₄	max. 20 ppm
Aluminium (Al)	max. 1 ppb
Antimony (Sb)	max. 1 ppb
Arsenic (As)	max. 0.5 ppb
Barium (Ba)	max. 0.1 ppb
Beryllium (Be)	max. 0.1 ppb
Bismuth (Bi)	max. 0.1 ppb
Cadmium (Cd)	max. 0.5 ppb
Calcium (Ca)	max. 1 ppb
Cerium (Ce)	max. 0.1 ppb
Cesium (Cs)	max. 0.1 ppb
Chromium (Cr)	max. 0.5 ppb
Cobalt (Co)	max. 0.5 ppb
Copper (Cu)	max. 0.5 ppb
Dysprosium (Dy)	max. 0.1 ppb

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Erbium (Er)	max. 0.1 ppb
Europium (Eu)	max. 0.1 ppb
Gadolinium (Gd)	max. 0.1 ppb
Gallium (Ga)	max. 0.1 ppb
Germanium (Ge)	max. 1 ppb
Gold (Au)	max. 0.5 ppb
Hafnium (Hf)	max. 0.1 ppb
Holmium (Ho)	max. 0.1 ppb
Indium (In)	max. 0.1 ppb
Iron (Fe)	max. 1 ppb
Lanthanum (La)	max. 0.1 ppb
Lead (Pb)	max. 0.1 ppb
Lithium (Li)	max. 0.5 ppb
Lutetium (Lu)	max. 0.1 ppb
Magnesium (Mg)	max. 1 ppb
Manganese (Mn)	max. 0.5 ppb
Mercury (Hg)	max. 0.1 ppb
Molybdenum (Mo)	max. 0.5 ppb
Neodymium (Nd)	max. 0.1 ppb
Nickel (Ni)	max. 0.5 ppb
Niobium (Nb)	max. 0.1 ppb
Potassium (K)	max. 1 ppb
Praseodymium (Pr)	max. 0.1 ppb
Rhodium (Rh)	max. 0.5 ppb

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Rubidium (Rb)	max. 0.5 ppb
Samarium (Sm)	max. 0.1 ppb
Scandium (Sc)	max. 0.1 ppb
Selenium (Se)	max. 10 ppb
Silver (Ag)	max. 1 ppb
Sodium (Na)	max. 1 ppb
Strontium (Sr)	max. 0.5 ppb
Tellurium (Te)	max. 0.1 ppb
Terbium (Tb)	max. 0.1 ppb
Thallium (Tl)	max. 0.1 ppb
Thorium (Th)	max. 0.1 ppb
Thulium (Tm)	max. 0.1 ppb
Tin (Sn)	max. 1 ppb
Titanium (Ti)	max. 1 ppb
Tungsten (W)	max. 0.5 ppb
Uranium (U)	max. 0.1 ppb
Vanadium (V)	max. 0.5 ppb
Ytterbium (Yb)	max. 0.1 ppb
Yttrium (Y)	max. 0.1 ppb
Zinc (Zn)	max. 1 ppb
Zirconium (Zr)	max. 0.5 ppb