

CERTIFICATE OF ANALYSIS

Product: ACETONE
Lot. No.: Example
Man. Date: Example
Exp. Date: Example
Grade: ULSI
Density (20°C): 0.790 g/cm³

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Date 13.07.2021
QC Director Dr.-Ing. Christian Koch

From a representative sample the following values were determined:

Parameter	Specifications	Results
Assay (GC, on anhydrous basis)	99.9-100 %	99.90 %
Color (APHA, Pt-Co)	<= 10	5
Water (KF)	<= 3000 ppm	1700 ppm
Phosphate (PO ₄)	<= 0.1 ppm	< 0.05 ppm
Chloride (Cl)	<= 0.1 ppm	< 0.1 ppm
Sulfate (SO ₄)	<= 0.1 ppm	< 0.1 ppm
Residue after ignition	<= 5 ppm	< 2.0 ppm
Alkalinity	<= 0.5 µeq/g	< 0.1 µeq/g
Acidity	<= 0.2 µeq/g	< 0.2 µeq/g
Cations		
Aluminum (Al)	< 20 ppb	< 10 ppb
Antimony (Sb)	< 10 ppb	< 5 ppb
Arsenic (As)	< 10 ppb	< 5 ppb
Barium (Ba)	< 20 ppb	< 10 ppb
Beryllium (Be)	< 20 ppb	< 10 ppb
Bismuth (Bi)	< 20 ppb	< 10 ppb
Boron (B)	< 20 ppb	< 10 ppb
Cadmium (Cd)	< 10 ppb	< 5 ppb
Calcium (Ca)	< 30 ppb	< 15 ppb
Chromium (Cr)	< 20 ppb	< 10 ppb
Cobalt (Co)	< 10 ppb	< 5 ppb
Copper (Cu)	< 20 ppb	< 10 ppb
Gallium (Ga)	< 10 ppb	< 5 ppb
Germanium (Ge)	< 20 ppb	< 10 ppb
Gold (Au)	< 20 ppb	< 10 ppb
Iron (Fe)	< 20 ppb	< 10 ppb
Lead (Pb)	< 20 ppb	< 10 ppb
Lithium (Li)	< 10 ppb	< 5 ppb
Magnesium (Mg)	< 20 ppb	< 10 ppb
Manganese (Mn)	< 20 ppb	< 10 ppb
Molybdenum (Mo)	< 10 ppb	< 5 ppb
Nickel (Ni)	< 20 ppb	< 10 ppb
Niobium (Nb)	< 20 ppb	< 10 ppb
Palladium (Pd)	< 10 ppb	< 10 ppb
Platin (Pt)	< 10 ppb	< 10 ppb
Potassium (K)	< 20 ppb	< 10 ppb
Silicon (Si)	< 20 ppb	< 10 ppb
Silver (Ag)	< 10 ppb	< 5 ppb
Sodium (Na)	< 20 ppb	< 10 ppb
Strontium (Sr)	< 20 ppb	< 10 ppb
Tantalum (Ta)	< 20 ppb	< 10 ppb
Thallium (Tl)	< 20 ppb	< 10 ppb
Tin (Sn)	< 20 ppb	< 10 ppb
Titanium (Ti)	< 20 ppb	< 10 ppb
Vanadium (V)	< 20 ppb	< 10 ppb
Zinc (Zn)	< 20 ppb	< 10 ppb
Zirconium (Zr)	< 10 ppb	< 5 ppb
Particles		
Particle count > 0.5 µm (Filtered through 0.2 µm, filled under inert gas.)	<100 p/ml	< 50 p/ml

The analytical results should not be construed as guaranteeing specific properties of the product or its suitability for a particular application. The above data do not release from carrying out an incoming goods inspection. This report is not to be signed.