

CERTIFICATE OF ANALYSIS

Product: ACETONE
Lot. No.: Example
Man. Date: Example
Exp. Date: Example
Grade: ULSI

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From a representative sample the following values were determined:

jeudi, 7. juin 2018
QC Director Dr.-Ing. Christian Koch

Parameter	Specification	Result
Assay (GC, on anhydrous basis)	99.9-100 %	> 99.9 %
Specific gravity (20°C)	0.790 g/cm ³	0.790 g/cm ³
Color (APHA, Pt-Co)	<10	5
Water (KF)	<0.25 % w/w	0.17 % w/w
Phosphate (PO ₄)	<0.05 ppm	< 0.05 ppm
Chloride (Cl)	<0.1 ppm	< 0.1 ppm
Sulfate (SO ₄)	<0.1 ppm	< 0.1 ppm
Residue after evaporation	0-0.0003 % w/w	< 0.0003 % w/w
Alkalinity	0-0.0002 eq/g	0-0.0002 eq/g
Acidity	0-0.0004 meq/g	< 0.0001 meq/g
Cations		
Aluminum (Al)	0-10 ppb	< 10 ppb
Antimony (Sb)	0-5 ppb	< 5 ppb
Arsenic (As)	0-5 ppb	< 5 ppb
Barium (Ba)	0-10 ppb	< 10 ppb
Beryllium (Be)	0-10 ppb	< 10 ppb
Bismuth (Bi)	0-10 ppb	< 10 ppb
Boron (B)	0-10 ppb	< 10 ppb
Cadmium (Cd)	0-5 ppb	< 5 ppb
Calcium (Ca)	0-15 ppb	< 15 ppb
Chromium (Cr)	0-10 ppb	< 10 ppb
Cobalt (Co)	0-5 ppb	< 5 ppb
Copper (Cu)	0-10 ppb	< 10 ppb
Gallium (Ga)	0-5 ppb	< 5 ppb
Germanium (Ge)	0-10 ppb	< 10 ppb
Gold (Au)	0-10 ppb	< 10 ppb
Iron (Fe)	0-10 ppb	< 10 ppb
Lead (Pb)	0-10 ppb	< 10 ppb
Lithium (Li)	0-5 ppb	< 5 ppb
Magnesium (Mg)	0-10 ppb	< 10 ppb
Manganese (Mn)	0-10 ppb	< 10 ppb
Molybdenum (Mo)	0-5 ppb	< 5 ppb
Nickel (Ni)	0-10 ppb	< 10 ppb
Niobium (Nb)	0-10 ppb	< 10 ppb
Potassium (K)	0-10 ppb	< 10 ppb
Silicon (Si)	0-10 ppb	< 10 ppb
Silver (Ag)	0-5 ppb	< 5 ppb
Sodium (Na)	0-10 ppb	< 10 ppb
Strontium (Sr)	0-10 ppb	< 10 ppb
Tantalum (Ta)	0-10 ppb	< 10 ppb
Thallium (Tl)	0-10 ppb	< 10 ppb
Tin (Sn)	0-10 ppb	< 10 ppb
Titanium (Ti)	0-10 ppb	< 10 ppb
Vanadium (V)	0-10 ppb	< 10 ppb
Zinc (Zn)	0-10 ppb	< 10 ppb
Zirconium (Zr)	0-5 ppb	< 5 ppb
Particles		
Particle count > 0.5 um (Filtered through 0.2 um, filled under inert gas.)	0-50 P/ml	12 P/ml
Particle count > 1.0 um (Filtered through 0.2 um, filled under inert gas.)	0-5 P/ml	4 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.