

Certificate of Analysis

Product Name:

Citric acid monohydrate PurTrace for trace analysis, ≥99.9998%

Product No.: PSR44166
Lot No.: Sample COA
Brand: PureSynth
CAS No.: 5949-29-1
Molecular Formula: $C_6H_8O_7 \cdot H_2O$
Molecular Weight: 210.14 g/mol
Date of Mfg.: NA
Date of Exp.: NA

Test	Specification	Result
Appearance	White Crystalline	White Crystalline
Assay (By GC)	≥ 99.9998 %	99.9999 %
Silver (Ag)	NMT 0.01 ppm	<0.01 ppm
Aluminium (Al)	NMT 0.05 ppm	<0.05 ppm
Arsenic (As)	NMT 0.01 ppm	<0.01 ppm
Gold (Au)	NMT 0.01 ppm	<0.01 ppm
Barium (Ba)	NMT 0.05 ppm	<0.05 ppm
Beryllium (Be)	NMT 0.01 ppm	<0.01 ppm
Bismuth (Bi)	NMT 0.01 ppm	<0.01 ppm
Calcium (Ca)	NMT 1.0 ppm	<1.0 ppm
Cadmium (Cd)	NMT 0.01 ppm	<0.01 ppm
Cerium (Ce)	NMT 0.01 ppm	<0.01 ppm
Cobalt (Co)	NMT 0.01 ppm	<0.01 ppm
Chromium (Cr)	NMT 0.05 ppm	<0.05 ppm
Cesium (Cs)	NMT 0.01 ppm	<0.01 ppm
Copper (Cu)	NMT 0.01 ppm	<0.01 ppm
Dysprosium (Dy)	NMT 0.01 ppm	<0.01 ppm
Erbium (Er)	NMT 0.01 ppm	<0.01 ppm
Europium (Eu)	NMT 0.01 ppm	<0.01 ppm
Iron (Fe)	NMT 0.1 ppm	<0.1 ppm
Gadolinium (Gd)	NMT 0.01 ppm	<0.01 ppm
Germanium (Ge)	NMT 0.01 ppm	<0.01 ppm
Hafnium (Hf)	NMT 0.01 ppm	<0.01 ppm
Mercury (Hg)	NMT 5.0 ppb	<5.0 ppb
Holmium (Ho)	NMT 0.01 ppm	<0.01 ppm
Indium (In)	NMT 0.01 ppm	<0.01 ppm
Iridium (Ir)	NMT 0.01 ppm	<0.01 ppm

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The conditions are subject to change without prior notice.

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Potassium (K)	NMT 0.1 ppm	<0.1 ppm
Lanthanum (La)	NMT 0.01 ppm	<0.01 ppm
Lithium (Li)	NMT 0.01 ppm	<0.01 ppm
Lutetium (Lu)	NMT 0.01 ppm	<0.01 ppm
Magnesium (Mg)	NMT 0.05 ppm	<0.05 ppm
Manganese (Mn)	NMT 0.01 ppm	<0.01 ppm
Molybdenum (Mo)	NMT 0.01 ppm	<0.01 ppm
Sodium (Na)	NMT 2.0 ppm	<2.0 ppm
Niobium (Nb)	NMT 0.01 ppm	<0.01 ppm
Neodymium (Nd)	NMT 0.01 ppm	<0.01 ppm
Nickel (Ni)	NMT 0.01 ppm	<0.01 ppm
Lead (Pb)	NMT 0.05 ppm	<0.05 ppm
Palladium (Pd)	NMT 0.01 ppm	<0.01 ppm
Praseodymium (Pr)	NMT 0.01 ppm	<0.01 ppm
Platinum (Pt)	NMT 0.01 ppm	<0.01 ppm
Rubidium (Rb)	NMT 0.01 ppm	<0.01 ppm
Rhodium (Rh)	NMT 0.01 ppm	<0.01 ppm
Ruthenium (Ru)	NMT 0.01 ppm	<0.01 ppm
Antimony (Sb)	NMT 0.01 ppm	<0.01 ppm
Scandium (Sc)	NMT 0.05 ppm	<0.05 ppm
Selenium (Se)	NMT 0.05 ppm	<0.05 ppm
Samarium (Sm)	NMT 0.01 ppm	<0.01 ppm
Tin (Sn)	NMT 0.05 ppm	<0.05 ppm
Strontium (Sr)	NMT 0.01 ppm	<0.01 ppm
Tantalum (Ta)	NMT 0.01 ppm	<0.01 ppm
Terbium (Tb)	NMT 0.01 ppm	<0.01 ppm
Tellurium (Te)	NMT 0.01 ppm	<0.01 ppm
Thorium (Th)	NMT 0.01 ppm	<0.01 ppm
Titanium (Ti)	NMT 0.05 ppm	<0.05 ppm
Thallium (Tl)	NMT 0.01 ppm	<0.01 ppm
Thulium (Tm)	NMT 0.01 ppm	<0.01 ppm
Uran (U)	NMT 0.01 ppm	<0.01 ppm
Vanadium (V)	NMT 0.01 ppm	<0.01 ppm
Tungsten (W)	NMT 0.01 ppm	<0.01 ppm
Yttrium (Y)	NMT 0.01 ppm	<0.01 ppm
Ytterbium (Yb)	NMT 0.01 ppm	<0.01 ppm
Zinc (Zn)	NMT 0.05 ppm	<0.05 ppm
Zirconium (Zr)	NMT 0.01 ppm	<0.01 ppm
Bromide (Br)	NMT 2000 ppb	<2000 ppb
Chloride (Cl)	NMT 10000 ppb	<10000 ppb
Fluoride (F)	NMT 2000 ppb	<10000 ppb
Iodide (I)	NMT 2000 ppb	<2000 ppb
Nitrite (NO ₂)	NMT 2000 ppb	<2000 ppb
Nitrate (NO ₃)	NMT 10000 ppb	<10000 ppb
Phosphate (PO ₄)	NMT 2.0 ppm	<2.0 ppm

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Sulfate (SO ₄)	NMT 10000 ppb	<10000 ppb
Acetate (C ₂ H ₃ O ₂)	NMT 5000 ppb	<5000 ppb
Formate (CHO ₂)	NMT 5000 ppb	<5000 ppb
Glycolate (C ₂ H ₃ O ₃)	NMT 5000 ppb	<5000 ppb
Oxalate (C ₂ O ₄)	NMT 5000 ppb	<5000 ppb

Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

Storage Condition:

Store at Room Temperature and keep the container tightly closed.

PureSynth Research Chemicals GmbH

This is electronically-generated copy & is valid without a signature

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