

Phosphoric Acid, 85%
CMOS
(orthophosphoric acid)



Material No.: 0264-05
Batch No.: 21I0862002
Manufactured Date: 2021-08-09
Retest Date: 2026-08-08
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (H ₃ PO ₄) (by acidimetry)	85.0 - 87.0 %	85.7 %
Color (APHA)	≤ 10	5
Specific Gravity at 60°/60°F	1.691 - 1.710	1.699
Reducing Substances	Passes Test	Passes Test
Volatile Acids (μeq/g)	≤ 0.16	0.09
Chloride (Cl)	≤ 1.0 ppm	< 1.0 ppm
Nitrate (NO ₃)	≤ 2 ppm	< 2 ppm
Sulfate (SO ₄)	≤ 12 ppm	< 1 ppm
Trace Impurities - Aluminum (Al)	≤ 0.500 ppm	0.014 ppm
Trace Impurities - Antimony (Sb)	≤ 10.000 ppm	< 0.001 ppm
Trace Impurities - Arsenic (As)	≤ 0.050 ppm	0.050 ppm
Trace Impurities - Calcium (Ca)	≤ 1.500 ppm	0.011 ppm
Trace Impurities - Chromium (Cr)	≤ 0.200 ppm	< 0.001 ppm
Trace Impurities - Cobalt (Co)	≤ 0.050 ppm	< 0.050 ppm
Trace Impurities - Copper (Cu)	≤ 0.050 ppm	< 0.001 ppm
Trace Impurities - Gold (Au)	≤ 0.300 ppm	0.067 ppm
Trace Impurities - ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 1 ppm
Trace Impurities - Iron (Fe)	≤ 2.0 ppm	< 0.1 ppm
Trace Impurities - Lead (Pb)	≤ 0.300 ppm	0.175 ppm
Trace Impurities - Lithium (Li)	≤ 0.100 ppm	< 0.001 ppm
Trace Impurities - Magnesium (Mg)	≤ 0.20 ppm	< 0.03 ppm
Trace Impurities - Manganese (Mn)	≤ 0.100 ppm	0.008 ppm
Trace Impurities - Nickel (Ni)	≤ 0.200 ppm	0.100 ppm
Trace Impurities - Potassium (K)	≤ 1.500 ppm	< 0.001 ppm
Trace Impurities - Sodium (Na)	≤ 2.500 ppm	0.073 ppm
Trace Impurities - Strontium (Sr)	≤ 0.100 ppm	< 0.001 ppm
Trace Impurities - Titanium (Ti)	≤ 0.300 ppm	< 0.001 ppm
Trace Impurities - Zinc (Zn)	≤ 2.000 ppm	< 0.001 ppm

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For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
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(orthophosphoric acid)



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Test	Specification	Result
Particle Count - 1.0 μ m and greater	≤ 10 par/ml	2 par/ml

For Microelectronic Use
Store at temperatures above 22°C (72°F)
Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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