

Phosphoric Acid, 85%
CMOS
(orthophosphoric acid)



Material No.: 0264-05
Batch No.: 21J2062004
Manufactured Date: 2021-09-15
Retest Date: 2026-09-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (H ₃ PO ₄) (by acidimetry)	85.0 - 87.0 %	85.9 %
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	0.03
Chloride (Cl)	≤ 1.0 ppm	< 0.5 ppm
Nitrate (NO ₃)	≤ 2 ppm	< 2 ppm
Sulfate (SO ₄)	≤ 12 ppm	< 4 ppm
Trace Impurities - Aluminum (Al)	≤ 0.500 ppm	0.027 ppm
Trace Impurities - Antimony (Sb)	≤ 10.000 ppm	< 0.300 ppm
Trace Impurities - Arsenic (As)	≤ 0.050 ppm	< 0.030 ppm
Trace Impurities - Calcium (Ca)	≤ 1.500 ppm	0.043 ppm
Trace Impurities - Chromium (Cr)	≤ 0.200 ppm	< 0.020 ppm
Trace Impurities - Cobalt (Co)	≤ 0.050 ppm	< 0.010 ppm
Trace Impurities - Copper (Cu)	≤ 0.050 ppm	< 0.010 ppm
Trace Impurities - Gold (Au)	≤ 0.300 ppm	< 0.030 ppm
Trace Impurities - ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 3 ppm
Trace Impurities - Iron (Fe)	≤ 2.0 ppm	< 0.1 ppm
Trace Impurities - Lead (Pb)	≤ 0.300 ppm	0.050 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	< 0.010 ppm
Trace Impurities - Nickel (Ni)	≤ 0.200 ppm	0.089 ppm
Trace Impurities - Potassium (K)	≤ 1.500 ppm	< 0.020 ppm
Trace Impurities - Sodium (Na)	≤ 2.500 ppm	0.092 ppm
Trace Impurities - Strontium (Sr)	≤ 0.100 ppm	0.001 ppm
Trace Impurities - Titanium (Ti)	≤ 0.300 ppm	< 0.030 ppm
Trace Impurities - Zinc (Zn)	≤ 2.000 ppm	< 0.040 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
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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CMOS
(orthophosphoric acid)



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Test	Specification	Result
Particle Count - 1.0 μm and greater	≤ 10 par/ml	1 par/ml

For Microelectronic Use
Storage Condition: 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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