

Phosphoric Acid, 85%
CMOS
(orthophosphoric acid)



Material No.: 0264-05
Batch No.: 23J1062005
Manufactured Date: 2023-09-21
Retest Date: 2028-09-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (H ₃ PO ₄) (by acidimetry)	85.0 – 87.0 %	85.6 %
Color (APHA)	≤ 10	5
Specific Gravity at 60°/60°F	1.691 – 1.710	1.698
Reducing Substances	Passes Test	Passes Test
Volatile Acids (μeq/g)	≤ 0.16	0.09
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	< 0.020 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	< 0.020 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	0.060 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	0.176 ppm
Trace Impurities – Lithium (Li)	≤ 0.100 ppm	0.005 ppm
Trace Impurities – Magnesium (Mg)	≤ 0.20 ppm	< 0.03 ppm
Trace Impurities – Manganese (Mn)	≤ 0.100 ppm	0.020 ppm
Trace Impurities – Nickel (Ni)	≤ 0.200 ppm	0.082 ppm
Trace Impurities – Potassium (K)	≤ 1.500 ppm	< 0.020 ppm
Trace Impurities – Sodium (Na)	≤ 2.500 ppm	0.140 ppm
Trace Impurities – Strontium (Sr)	≤ 0.100 ppm	< 0.005 ppm
Trace Impurities – Titanium (Ti)	≤ 0.300 ppm	0.034 ppm
Trace Impurities – Zinc (Zn)	≤ 2.000 ppm	< 0.040 ppm

>>> Continued on page 2 >>>

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

Ken Koehnlein
Sr. Manager, Quality Assurance

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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