

Phosphoric Acid, 85%
CMOS
(orthophosphoric acid)



Material No.: 0264-05
Batch No.: 25D3062003
Manufactured Date: 2025-04-21
Retest Date: 2030-04-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (H ₃ PO ₄) (by acidimetry)	85.0 – 87.0 %	85.8 %
Color (APHA)	<= 10	5
Specific Gravity at 60°/60°F	1.691 – 1.710	1.703
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	1.112 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	0.043 ppm
Trace Impurities – Copper (Cu)	<= 0.050 ppm	0.049 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	0.2 ppm
Trace Impurities – Lead (Pb)	<= 0.300 ppm	<0.040 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	0.013 ppm
Trace Impurities – Nickel (Ni)	<= 0.200 ppm	0.098 ppm
Trace Impurities – Potassium (K)	<= 1.500 ppm	0.001 ppm
Trace Impurities – Sodium (Na)	<= 2.500 ppm	<0.020 ppm
Trace Impurities – Strontium (Sr)	<= 0.100 ppm	<0.005 ppm
Trace Impurities – Titanium (Ti)	<= 0.300 ppm	<0.030 ppm
Trace Impurities – Zinc (Zn)	<= 2.000 ppm	0.138 ppm

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	6 par/ml

For Microelectronic Use

Storage Condition: Store at temperatures above 22°C (72°F)

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in blue ink that reads 'JCroak'.

Jamie Croak
Director Quality Operations, Bioscience Production

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