

Phosphoric Acid, 85%
CMOS
(orthophosphoric acid)



Material No.: 0264-05
Batch No.: 24F1762004
Manufactured Date: 2024-06-03
Retest Date: 2029-06-02
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	1.701
Reducing Substances	Passes Test	Passes Test
Volatile Acids (μeq/g)	≤ 0.16	0.05
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	0.040 ppm
Trace Impurities – Antimony (Sb)	≤ 10.000 ppm	0.659 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	0.037 ppm
Trace Impurities – Copper (Cu)	≤ 0.050 ppm	0.016 ppm
Trace Impurities – Gold (Au)	≤ 0.300 ppm	0.033 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	< 0.040 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	0.011 ppm
Trace Impurities – Nickel (Ni)	≤ 0.200 ppm	0.095 ppm
Trace Impurities – Potassium (K)	≤ 1.500 ppm	0.716 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	0.054 ppm

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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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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