

Phosphoric Acid, 85%
CMOS

(orthophosphoric acid)



Material No.: 0264-05
Batch No.: 0000253546
Manufactured Date: 2020/02/18
Retest Date: 2025/02/16
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (H ₃ PO ₄) (by acidimetry)	85.0 – 87.0 %	86.3
Color (APHA)	<= 10	5
Specific Gravity at 60°/60°F	1.691 – 1.710	1.706
Reducing Substances	Passes Test	PT
Volatile Acids (µeq/g)	<= 0.16	0.05
Chloride (Cl)	<= 1 ppm	< 1
Nitrate (NO ₃)	<= 2 ppm	< 2
Sulfate (SO ₄)	<= 12 ppm	< 8
Trace Impurities – Aluminum (Al)	<= 0.500 ppm	< 0.001
Trace Impurities – Antimony (Sb)	<= 10.000 ppm	0.002
Trace Impurities – Arsenic (As)	<= 0.050 ppm	< 0.001
Trace Impurities – Calcium (Ca)	<= 1.500 ppm	< 0.001
Trace Impurities – Chromium (Cr)	<= 0.200 ppm	0.024
Trace Impurities – Cobalt (Co)	<= 0.050 ppm	< 0.001
Trace Impurities – Copper (Cu)	<= 0.050 ppm	< 0.001
Trace Impurities – Gold (Au)	<= 0.300 ppm	0.008
Trace Impurities – ACS – Heavy Metals (as Pb)	<= 5 ppm	< 3
Trace Impurities – Iron (Fe)	<= 2.000 ppm	< 0.100
Trace Impurities – Lead (Pb)	<= 0.300 ppm	0.031
Trace Impurities – Lithium (Li)	<= 0.100 ppm	< 0.021
Trace Impurities – Magnesium (Mg)	<= 0.20 ppm	<0.03
Trace Impurities – Manganese (Mn)	<= 0.100 ppm	< 0.001
Trace Impurities – Nickel (Ni)	<= 0.200 ppm	0.052
Trace Impurities – Potassium (K)	<= 1.500 ppm	< 0.001

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

Test	Specification	Result
Trace Impurities – Sodium (Na)	<= 2.500 ppm	0.063
Trace Impurities – Strontium (Sr)	<= 0.100 ppm	< 0.001
Trace Impurities – Titanium (Ti)	<= 0.300 ppm	0.002
Trace Impurities – Zinc (Zn)	<= 2.000 ppm	< 0.001
Particle Count – 1.0 µm and greater	<= 10 par/ml	1

For Microelectronic Use
PHOSPHORIC ACID 85%

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

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality