



CERTIFICATE OF ANALYSIS

Product:	Phosphoric Acid 85%, ACS/SEMI Grade*		
Catalog Number:	P1025		
Lot Number:	27703491601		
Manufacture Date:	12/14/16	Expiration Date:	12/31/19
CAS #:	7664-38-2	Chemical Formula:	H₃PO₄
Formula Weight:	98.00	Density:	1.69 kg/L

<u>Property</u>	<u>Specifications</u>	<u>Analysis</u>	
Color	10 APHA maximum	<10	
Assay (w/w)	85.0 - 87.0%	86.03	%
Sulfate	12 ppm maximum	<12	ppm
Insoluble Matter	0.001% maximum	<0.0010	%
Chloride	1 ppm maximum	<1	ppm
Nitrate	5 ppm maximum	<5.00	ppm
Reducing Substances	Passes Test	Pass	
Aluminum	0.5 ppm maximum	0.011	ppm
Antimony	10 ppm maximum	1.133	ppm
Arsenic	0.05 ppm maximum	<0.050	ppm
Calcium	1.5 ppm maximum	0.031	ppm
Chromium	0.2 ppm maximum	0.033	ppm
Copper	0.05 ppm maximum	0.001	ppm
Heavy Metals	10 ppm maximum	<10	ppm
Iron	2 ppm maximum	0.789	ppm
Lead	0.3 ppm maximum	0.005	ppm
Lithium	0.1 ppm maximum	0.001	ppm
Magnesium	0.2 ppm maximum	0.004	ppm
Manganese	0.1 ppm maximum	0.011	ppm
Nickel	0.2 ppm maximum	0.053	ppm
Potassium	1.5 ppm maximum	0.018	ppm
Sodium	250 ppm maximum	0.122	ppm
Titanium	0.3 ppm maximum	0.001	ppm
Zinc	2 ppm maximum	0.001	ppm
Volatile Acids	0.001% maximum	<0.0010	%

Tested to: American Chemical Society Specifications (Eleventh Edition) June 1, 2016
Semi Book of Standards Process Chemicals

* Only 3.8 L containers of this material meet Semiconductor Grade specifications. All other sizes meet ACS specifications only.

It is certified on 12/20/16 that the above is a true copy of the actual lot analysis.

Anthony Welch
Quality Systems and Regulatory Affairs
Rocky Mountain Reagents, Inc.

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