

NMP (1-Methyl-2-pyrrolidinone)  
ALEG®

Positive Photoresist Stripper



Material No.: 6397-05  
Batch No.: 0000243613  
Manufactured Date: 2019/08/18  
Retest Date: 2024/08/16  
Revision No: 1

## Certificate of Analysis

Test	Specification	Result
Assay (C <sub>5</sub> H <sub>9</sub> NO)	>= 99.5 %	100.0
Color (APHA)	<= 20	<5
Water (H <sub>2</sub> O)(by Karl Fischer titrn)	<= 0.05 %	0.01
Free Amines (as CH <sub>3</sub> NH <sub>2</sub> )	<= 50 ppm	< 1
Chloride (Cl)	<= 0.5 ppm	< 0.5
Phosphate (PO <sub>4</sub> )	<= 1 ppm	< 1
Trace Impurities – Aluminum (Al)	<= 100.0 ppb	< 0.5
Arsenic and Antimony (as As)	<= 100 ppb	< 10
Trace Impurities – Barium (Ba)	<= 100.0 ppb	< 0.5
Trace Impurities – Boron (B)	<= 100.0 ppb	< 2.0
Trace Impurities – Calcium (Ca)	<= 300.0 ppb	11.0
Trace Impurities – Chromium (Cr)	<= 100.0 ppb	< 1.0
Trace Impurities – Cobalt (Co)	<= 100.0 ppb	< 1.0
Trace Impurities – Copper (Cu)	<= 100.0 ppb	< 0.5
Trace Impurities – Gold (Au)	<= 100.0 ppb	< 0.5
Trace Impurities – Iron (Fe)	<= 100.0 ppb	3.0
Trace Impurities – Lead (Pb)	<= 100.0 ppb	< 3.0
Trace Impurities – Lithium (Li)	<= 100.0 ppb	< 0.5
Trace Impurities – Magnesium (Mg)	<= 100.0 ppb	0.8
Trace Impurities – Manganese (Mn)	<= 100.0 ppb	< 1.0
Trace Impurities – Nickel (Ni)	<= 100.0 ppb	< 1.0
Trace Impurities – Potassium (K)	<= 100.0 ppb	< 4.0
Trace Impurities – Silver (Ag)	<= 100.0 ppb	< 1.0
Trace Impurities – Sodium (Na)	<= 300.0 ppb	3.0

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 – Strontium (Sr)	<= 100.0 ppb	< 0.5
Trace Impurities – Tin (Sn)	<= 100.0 ppb	< 2.0
Trace Impurities – Titanium (Ti)	<= 100.0 ppb	< 1.0
Trace Impurities – Vanadium (V)	<= 100.0 ppb	< 0.5
Trace Impurities – Zinc (Zn)	<= 100.0 ppb	< 1.0
Particle Count – 1.0 µm and greater (Rion KS42AF)	<= 10 par/ml	1

For Microelectronic Use

Country of Origin: US  
Packaging Site: Phillipsburg Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality