

NMP (1-Methyl-2-pyrrolidinone)

ALEG®

Positive Photoresist Stripper



Material No.: 6397-05

Batch No.: 23A1962004

Manufactured Date: 2022-09-11

Retest Date: 2027-09-10

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (C ₅ H ₉ NO)	≥ 99.5 %	99.9 %
Color (APHA)	≤ 20	10
Water (H ₂ O)(by Karl Fischer titrn)	≤ 0.05 %	0.01 %
Free Amines (as CH ₃ NH ₂)	≤ 50 ppm	2 ppm
Chloride (Cl)	≤ 0.5 ppm	0.4 ppm
Phosphate (PO ₄)	≤ 1 ppm	< 1 ppm
Trace Impurities – Aluminum (Al)	≤ 100.0 ppb	< 0.5 ppb
Arsenic and Antimony (as As)	≤ 100.0 ppb	10.0 ppb
Trace Impurities – Barium (Ba)	≤ 100.0 ppb	< 0.5 ppb
Trace Impurities – Boron (B)	≤ 100.0 ppb	< 2.0 ppb
Trace Impurities – Calcium (Ca)	≤ 300 ppb	23 ppb
Trace Impurities – Chromium (Cr)	≤ 100.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 100.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 100.0 ppb	< 0.5 ppb
Trace Impurities – Gold (Au)	≤ 100.0 ppb	< 0.5 ppb
Trace Impurities – Iron (Fe)	≤ 100.0 ppb	3.0 ppb
Trace Impurities – Lead (Pb)	≤ 100 ppb	< 3 ppb
Trace Impurities – Lithium (Li)	≤ 100.0 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 100.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 100.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 100.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 100 ppb	< 4 ppb
Trace Impurities – Silver (Ag)	≤ 100.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 300 ppb	3 ppb
Trace Impurities – Strontium (Sr)	≤ 100.0 ppb	< 0.5 ppb
Trace Impurities – Tin (Sn)	≤ 100 ppb	< 2 ppb
Trace Impurities – Titanium (Ti)	≤ 100.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 100.0 ppb	< 0.5 ppb

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

Avantor Performance Materials, LLC

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Test	Specification	Result
Trace Impurities – Zinc (Zn)	≤ 100.0 ppb	< 1.0 ppb
Particle Count – 1.0 μm and greater (Rion KS42AF)	≤ 10 par/ml	6 par/ml

For Microelectronic Use

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


Jamie Ethier
Vice President Global Quality

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