

NMP (1-Methyl-2-pyrrolidinone)  
ALEG®  
Positive Photoresist Stripper



Material No.: 6397-05  
Batch No.: 25C2462002  
Manufactured Date: 2025-03-02  
Retest Date: 2030-03-01  
Revision No.: 0

## Certificate of Analysis

| Test                                              | Specification | Result    |
|---------------------------------------------------|---------------|-----------|
| Assay (C <sub>5</sub> H <sub>9</sub> NO)          | >= 99.5 %     | 100.0 %   |
| Color (APHA)                                      | <= 20         | 10        |
| 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 ppm    |
| Chloride (Cl)                                     | <= 0.5 ppm    | <0.3 ppm  |
| Phosphate (PO <sub>4</sub> )                      | <= 1 ppm      | <1 ppm    |
| Trace Impurities – Aluminum (Al)                  | <= 100.0 ppb  | 0.3 ppb   |
| Arsenic & Antimony (as As)                        | <= 100.0 ppb  | <10.0 ppb |
| Trace Impurities – Barium (Ba)                    | <= 100.0 ppb  | <0.0 ppb  |
| Trace Impurities – Boron (B)                      | <= 100.0 ppb  | <0.0 ppb  |
| Trace Impurities – Calcium (Ca)                   | <= 300 ppb    | 3 ppb     |
| Trace Impurities – Chromium (Cr)                  | <= 100.0 ppb  | 0.1 ppb   |
| Trace Impurities – Cobalt (Co)                    | <= 100.0 ppb  | <0.0 ppb  |
| Trace Impurities – Copper (Cu)                    | <= 100.0 ppb  | 0.2 ppb   |
| Trace Impurities – Gold (Au)                      | <= 100.0 ppb  | <0.5 ppb  |
| Trace Impurities – Iron (Fe)                      | <= 100.0 ppb  | 0.4 ppb   |
| Trace Impurities – Lead (Pb)                      | <= 100 ppb    | 0 ppb     |
| Trace Impurities – Lithium (Li)                   | <= 100.0 ppb  | <0.0 ppb  |
| Trace Impurities – Magnesium (Mg)                 | <= 100.0 ppb  | 0.3 ppb   |
| Trace Impurities – Manganese (Mn)                 | <= 100.0 ppb  | 0.0 ppb   |
| Trace Impurities – Nickel (Ni)                    | <= 100.0 ppb  | 0.1 ppb   |
| Trace Impurities – Potassium (K)                  | <= 100 ppb    | 0 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  | <0.0 ppb  |
| Trace Impurities – Vanadium (V)                   | <= 100.0 ppb  | <0.5 ppb  |

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

NMP (1-Methyl-2-pyrrolidinone)  
ALEG®  
Positive Photoresist Stripper



Material No.: 6397-05  
Batch No.: 25C2462002

| Test                                              | Specification | Result   |
|---------------------------------------------------|---------------|----------|
| Trace Impurities – Zinc (Zn)                      | <= 100.0 ppb  | 0.6 ppb  |
| Particle Count – 1.0 µm and greater (Rion KS42AF) | <= 10 par/ml  | 7 par/ml |

For Microelectronic Use

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in black ink that reads 'JCroak'.

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

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700