

## Certificate of Analysis

| Test  | Specification | Result      |
|---|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | ≥ 99.5 %      | 99.8 %      |
| Color (APHA)  | ≤ 10          | 5           |
| Residue after Evaporation   | ≤ 5 ppm       | < 5 ppm     |
| Titration Acid (µeq/g)  | ≤ 0.3         | < 0.3       |
| Titration Base (µeq/g)  | ≤ 0.5         | < 0.5       |
| Water (H <sub>2</sub> O)  | ≤ 0.5 %       | 0.1 %       |
| Solubility in H <sub>2</sub> O  | Passes Test   | Passes Test |
| Chloride (Cl)   | ≤ 0.2 ppm     | < 0.2 ppm   |
| Phosphate (PO <sub>4</sub> )  | ≤ 0.05 ppm    | < 0.05 ppm  |
| Trace Impurities - Aluminum (Al)  | ≤ 50.0 ppb    | < 5.0 ppb   |
| Arsenic and Antimony (as As)  | ≤ 5.0 ppb     | < 5.0 ppb   |
| Trace Impurities - Barium (Ba)  | ≤ 20.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Beryllium (Be)                                       | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Bismuth (Bi)   | ≤ 20.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Boron (B)  | ≤ 10.0 ppb    | < 5.0 ppb   |
| Trace Impurities - Cadmium (Cd)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Calcium (Ca)   | ≤ 25.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Chromium (Cr)  | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Cobalt (Co)  | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Copper (Cu)  | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Gallium (Ga)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Germanium (Ge)                                       | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Gold (Au)  | ≤ 20 ppb      | < 5 ppb     |
| Trace Impurities - Iron (Fe)  | ≤ 20.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Lead (Pb)  | ≤ 10.0 ppb    | < 10.0 ppb  |
| Trace Impurities - Lithium (Li)   | ≤ 10.0 ppb    | < 1.0 ppb   |
| Trace Impurities - Magnesium (Mg)                                       | ≤ 20 ppb      | < 1 ppb     |
| Trace Impurities - Manganese (Mn)                                       | ≤ 10.0 ppb    | < 1.0 ppb   |

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| Test  | Specification | Result     |
|---|---------------|------------|
| Trace Impurities – Molybdenum (Mo)                | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Nickel (Ni)                    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Niobium (Nb)                   | ≤ 50.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Potassium (K)                  | ≤ 10.0 ppb    | < 10.0 ppb |
| Trace Impurities – Silicon (Si)                   | ≤ 50 ppb      | < 10 ppb   |
| Trace Impurities – Silver (Ag)                    | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Sodium (Na)                    | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Strontium (Sr)                 | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Tantalum (Ta)                  | ≤ 50.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Thallium (Tl)                  | ≤ 10.0 ppb    | < 5.0 ppb  |
| Trace Impurities – Tin (Sn)                       | ≤ 20.0 ppb    | < 10.0 ppb |
| Trace Impurities – Titanium (Ti)                  | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Vanadium (V)                   | ≤ 10.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Zinc (Zn)                      | ≤ 20.0 ppb    | < 1.0 ppb  |
| Trace Impurities – Zirconium (Zr)                 | ≤ 10.0 ppb    | < 1.0 ppb  |
| Particle Count – 0.5 µm and greater (Rion KS42AF) | ≤ 100 par/ml  | 13 par/ml  |
| Particle Count – 1.0 µm and greater (Rion KS42AF) | ≤ 8 par/ml    | 4 par/ml   |

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Acetone  
CMOS



Material No.: 9005-68  
Batch No.: 23F2361004

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| Test | Specification | Result |
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For Microelectronic Use

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

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