

Material No.: 9466-03 Batch No.: 24K1361054

Manufactured Date: 2024-11-12

Retest Date:2029-11-11

Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|----------------------------------------------------------------|---------------|-------------|
| Assay (C ₆ H ₅ CH ₃) (by GC) | >= 99.5 % | 99.9 % |
| Color (APHA) | <= 10 | <5 |
| Acidity (µeq/g) | <= 0.2 | 0.1 |
| Residue after Evaporation | <= 2.0 ppm | <1.0 ppm |
| Water (by KF, coulometric) | <= 0.03 % | 0.01 % |
| Substances Darkened by H ₂ SO ₄ | Passes Test | Passes Test |
| Sulfur Compounds (as S) | <= 0.003 % | <0.003 % |
| Chloride (Cl) | <= 2 ppm | <2 ppm |
| Phosphate (PO ₄) | <= 0.5 ppm | <0.5 ppm |
| Trace Impurities - Aluminum (Al) | <= 20 ppb | <5 ppb |
| Arsenic & Antimony (as As) | <= 10.0 ppb | <10.0 ppb |
| Trace Impurities - Barium (Ba) | <= 10.0 ppb | <1.0 ppb |
| Trace Impurities – Boron (B) | <= 20.0 ppb | <5.0 ppb |
| Trace Impurities – Cadmium (Cd) | <= 20.0 ppb | <1.0 ppb |
| Trace Impurities – Calcium (Ca) | <= 100.0 ppb | 3.8 ppb |
| Trace Impurities – Chromium (Cr) | <= 10.0 ppb | <1.0 ppb |
| Trace Impurities – Cobalt (Co) | <= 20 ppb | <1 ppb |
| Trace Impurities – Copper (Cu) | <= 20.0 ppb | <1.0 ppb |
| Trace Impurities – Gallium (Ga) | <= 50 ppb | <1 ppb |
| Trace Impurities – Germanium (Ge) | <= 50.0 ppb | <10.0 ppb |
| Trace Impurities – Gold (Au) | <= 20 ppb | <5 ppb |
| Heavy Metals (as Pb) | <= 500.0 ppb | <500.0 ppb |
| Trace Impurities – Iron (Fe) | <= 20.0 ppb | <1.0 ppb |
| Trace Impurities – Lithium (Li) | <= 20.0 ppb | <1.0 ppb |
| Trace Impurities – Magnesium (Mg) | <= 10.0 ppb | <1.0 ppb |
| Trace Impurities – Manganese (Mn) | <= 10.0 ppb | <1.0 ppb |
| Trace Impurities - Nickel (Ni) | <= 20.0 ppb | <5.0 ppb |
| Trace Impurities – Potassium (K) | <= 50 ppb | <10 ppb |



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| Trace Impurities – Silicon (Si) | <= 100.0 ppb | <10.0 ppb | |
| Trace Impurities – Silver (Ag) | <= 20.0 ppb | <1.0 ppb | |
| Trace Impurities – Sodium (Na) | <= 100.0 ppb | <5.0 ppb | |
| Trace Impurities – Strontium (Sr) | <= 10.0 ppb | <1.0 ppb | |
| Trace Impurities – Tin (Sn) | <= 30.0 ppb | <10.0 ppb | |
| Trace Impurities – Zinc (Zn) | <= 20.0 ppb | <1.0 ppb | |
| Particle Count – 1.0 µm and greater | <= 10 par/ml | 2 par/ml | |

For Microelectronic Use

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

