

# Certificate of Analysis

**Product:** Potassium Permanganate

**Reference No.:**

**Production Date:**

**Synonyms:**

**Shelf Life:**

| PROPERTY                    | UNIT             | STANDARD                           | RESULT                       |
|-----------------------------|------------------|------------------------------------|------------------------------|
| Appearance                  |                  | Dark green, purple, or black       | Dark green, purple, or black |
| Purity (KmnO4) on dry basis | %                | 99.00 min                          | 99.03                        |
| Insoluble matter            | %                | 0.50 max                           | 0.25                         |
| Moisture (as H2O)           | %                | 0.50 max                           | 0.26                         |
| Chloride (as Cl)            | %                | 0.1 max                            | 0.1                          |
| Sulphate (as SO4)           | %                | 0.2 max                            | 0.1                          |
| Nitrogen (total N)          | %                | 0.1 max                            | 0.05                         |
| Cadmium (as Cd)             | ppm              | 10 max                             | 1                            |
| Chromium (as Cr)            | ppm              | 10 max                             | 1                            |
| Heavy metals (as Pb)        | ppm              | 10 max                             | 1                            |
| Arsenic (as As)             | ppm              | 10 max                             | 1                            |
| Mercury (as Hg)             | ppm              | 10 max                             | Not detected                 |
| Antimony (as Sb)            | ppm              | 10 max                             | 2                            |
| Selenium (as Se)            | ppm              | 10 max                             | Not detected                 |
| Bulk Density @ 22°C 72°F    | --               | 90-100 lbs/cft                     | 91                           |
| Particle size               | --               | --                                 | --                           |
| Retention                   | --               | 20% Max on US standard no 40       | 12%                          |
| Passes                      | --               | 11% Max through US standard no 200 | 7.6%                         |
| <b>Conclusion:</b>          | <i>Qualified</i> |                                    |                              |