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| **Sno** | **Description** | **UOM** | **Specification** |
| 1 | Physical State / Color | - | Solid Powder / White |
| 2 | Assay Content | % | 97 |
| 4 | Grade | - | ExcelR |
| 5 | Mol. Wt. | g/mol | 74.55 |
| 6 | **Element** | **%** | **Percentage** |
| **a.** | Potassium(K) | **%** | 51 ± 0.1 |
| **b.** | Chloride (Cl) | **%** | 46 ± 0.2 |
| **c.** | Sulphates | **%** | ≤ 0.001 |
| **d.** | Phosphates | PPM | ≤ 5 |
| **e.** | Iron | **%** | 0.004 |
| **f.** | Ca | **%** | ≤ 0.001 |
| 7 | Melting point | °C | 770 |
| 8 | Boiling point | °C | 1420 |
| 9 | Particle size distribution | µm | 50 - 90 |
| 10 | Specific heat | J/ (kg K) | 693.7 |
| 11 | Supplier |  | Madhava Lab chemicals |
| 12 | MSDS no. | - | XXX |
| 13 | CAS no. | - | 7447-40-7 |
| 14 | **Acceptance Criteria** | | |
| **a.** | Assay Content (w.r.t Chloride) | % | 97 |
| **b.** | Visual Acceptance | - | White Solid Powder |
| **c.** | Melting Point | °C | 770 |
| **d.** | Boiling Point | °C | 1420 |
| **e.** | Eutectic Mixture (LiCl: KCl = 44:56) M.P | °C | 352 |
| 15 | **Properties to be tested** | **Test Method** | **Test Agency** |
| **a.** | Quantitative & qualitative analysis | ICPMS/Titration | NABL, IIT-HYD, CMET |
| **b.** | Particle size distribution | PSD | NABL, SRR labs |
| **c.** | Mechanical Properties (Pellet Strength) | NA | NA |
| **d.** | Specific heat & Thermal Conductivity | DSC/TGA | NABL, IIT-HYD, CMET |