

## PRODUCT IDENTITY

|                 |                                            |                |                                      |
|-----------------|--------------------------------------------|----------------|--------------------------------------|
| PRODUCT NAME    | Magnesium chloride hexahydrate             | PRODUCT NUMBER | M774658                              |
| Grades & Purity | Ph.Eur.,Suitable for Analysis,Premium pure | VERSION        | 3                                    |
| CAS NUMBER      | 7791-18-6                                  | FORMULA        | MgCl <sub>2</sub> •6H <sub>2</sub> O |
| FORMULA WEIGHT  | 203.3g/mol                                 |                |                                      |

## ACCEPTANCE CRITERIA

| PARAMETER                                                                | SPECIFICATION / LIMIT           |
|--------------------------------------------------------------------------|---------------------------------|
| Appearance(M774658)                                                      | colourless crystals,hygroscopic |
| Solubility:very soluble in water, freely soluble in ethanol(96 per cent) | pass                            |
| Assay(Complexometric EDTA)                                               | 99.0-101 (%)                    |
| Identity(Chloride)                                                       | Passes test                     |
| Identity(magnesium)                                                      | passes test                     |
| Appearance of solution                                                   | Passes test                     |
| Insoluble matter                                                         | 0-0.005 (%)                     |
| Acidity or alkalinity                                                    | passes test                     |
| pH-value (5 %; water)                                                    | 5-7                             |
| Phosphate(PO <sub>4</sub> )                                              | 0-5 (ppm)                       |

| PARAMETER                     | SPECIFICATION / LIMIT |
|-------------------------------|-----------------------|
| Sulfate(SO <sub>4</sub> )     | 0-0.005 (%)           |
| Aluminium(Al)                 | 0-0.0001 (%)          |
| As (Arsenic)                  | 0-0.0002 (%)          |
| Calcium(Ca)                   | 0-0.1 (%)             |
| Fe(Iron)                      | 0-10 (ppm)            |
| Potassium(K)                  | 0-0.05 (%)            |
| Ammonium(NH <sub>4</sub> )    | 0-0.005 (%)           |
| Water by Karl Fischer         | 51.0-55 (%)           |
| Barium(Ba)                    | 0-0.005 (%)           |
| Manganese(Mn)                 | 0-0.005 (%)           |
| Sodium(Na)                    | 0-0.5 (%)             |
| Strontium(Sr)                 | 0-0.005 (%)           |
| Heavy metals (as Pb)          | 0-5 (ppm)             |
| Lead ( Pb)                    | 0-0.0004 (%)          |
| Hg (Mercury)                  | ≤ 0.0001 (%)          |
| Total Aerobic Microbial Count | 0-100 (cfu/g)         |
| Total yeast and mould count   | 0-100 (cfu/g)         |

| PARAMETER                                                      | SPECIFICATION / LIMIT |
|----------------------------------------------------------------|-----------------------|
| Endotoxins                                                     | 0-3 (IU/g OR u/g)     |
| Residual solvents (ICH (Q3C))excluded by manufacturing process | pass                  |
| Bromide(Br)                                                    | 0-0.05 (%)            |