

Code No.09-0087

## SPECIFICATION

## Iron(III) Chloride Hexahydrate

Guaranteed Reagent

| REQUIREMENT   | SPECIFICATION         |
|---|-----------------------|
| * Appearance  | Yellowish brown mass  |
| Assay ( $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$ ) | min.99.0%(mass/mass)  |
| Solubility in dil.hydrochloric acid                 | to pass test          |
| Acidity (as HCl)                                    | max.0.2%(mass/mass)   |
| Oxychloride   | to pass test          |
| Nitrogen compounds (as N)                           | max.0.003%(mass/mass) |
| Phosphate ( $\text{PO}_4$ )                         | max.0.005%(mass/mass) |
| Sulfate ( $\text{SO}_4$ )                           | max.0.005%(mass/mass) |
| Free chlorine                                       | to pass test          |
| Sodium (Na)   | max.0.05%(mass/mass)  |
| Potassium (K)                                       | max.0.005%(mass/mass) |
| Copper (Cu)   | max.0.005%(mass/mass) |
| Magnesium (Mg)                                      | max.0.005%(mass/mass) |
| Calcium (Ca)  | max.0.005%(mass/mass) |
| Zinc (Zn)   | max.0.005%(mass/mass) |
| Lead (Pb)   | max.0.005%(mass/mass) |
| Arsenic (As)  | max.5ppm(mass/mass)   |
| Manganese (Mn)                                      | max.0.05%(mass/mass)  |
| Iron(II) ( $\text{Fe}^{2+}$ )                       | max.0.002%(mass/mass) |

JIS K 8142 : 2024(\*:Additional test performed by Wako but not required by JIS)