

## SPECIFICATION

### Ferric Alum Dodecahydrate

| Parameters        | Specification                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------|
| CAS Number        | 7783-83-7                                                                                                                       |
| Appearance        | Colorless to white crystalline solid.                                                                                           |
| Molecular Formula | $(\text{NH}_4)\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$                                                              |
| Molecular Weight  | 616.05 g/mol                                                                                                                    |
| Boiling Point     | 1000 °C                                                                                                                         |
| Melting Point     | 100 °C                                                                                                                          |
| Flash Point       | 560 °C                                                                                                                          |
| Purity            | 98–99%                                                                                                                          |
| Refractive Index  | 1.5                                                                                                                             |
| Solubility        | Soluble in water                                                                                                                |
| Uses              | Water treatment as a coagulant/flocculant; dyeing and mordanting; paper and textile processing; purification of drinking water. |

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