

DIN EN 888:2023-05 (E)

Chemicals used for treatment of water intended for human consumption - Iron (III) chloride

| Contents | | Page |
|-------------------------|--|-------------|
| European foreword | | 4 |
| Introduction | | 5 |
| 1 | Scope | 6 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 6 |
| 4 | Description | 6 |
| 4.1 | Identification | 6 |
| 4.1.1 | Chemical names | 6 |
| 4.1.2 | Synonym or common names | 6 |
| 4.1.3 | Relative molecular mass | 6 |
| 4.1.4 | Empirical formula | 7 |
| 4.1.5 | Chemical formula | 7 |
| 4.1.6 | CAS Registry Number | 7 |
| 4.1.7 | EINECS reference | 7 |
| 4.2 | Commercial forms | 7 |
| 4.3 | Physical properties | 7 |
| 4.3.1 | Appearance | 7 |
| 4.3.2 | Density | 7 |
| 4.3.3 | Solubility (in water) | 7 |
| 4.3.4 | Vapour pressure | 8 |
| 4.3.5 | Boiling point at 100 kPa | 8 |
| 4.3.6 | Melting and freezing point | 8 |
| 4.3.7 | Specific heat | 8 |
| 4.3.8 | Viscosity (dynamic) | 8 |
| 4.3.9 | Critical temperature | 8 |
| 4.3.10 | Critical pressure | 8 |
| 4.3.11 | Physical hardness | 8 |
| 4.4 | Chemical properties | 8 |
| 5 | Purity criteria | 8 |
| 5.1 | General | 8 |
| 5.2 | Composition of commercial product | 9 |
| 5.3 | The grade of the product | 9 |
| 5.4 | The type of the product | 9 |
| 6 | Test methods | 10 |
| 6.1 | Sampling | 10 |
| 6.2 | Analyses | 10 |
| 7 | Labelling - Transportation - Storage | 10 |
| 7.1 | Means of delivery | 10 |
| 7.2 | Risk and safety labelling according to the EU Directives | 10 |
| 7.3 | Transportation regulations and labelling | 12 |
| 7.4 | Marking | 12 |
| 7.5 | Storage | 12 |
| 7.5.1 | Long term stability | 12 |

| | | |
|---------|--|----|
| 7.5.2 | Storage incompatibilities..... | 12 |
| Annex A | (informative) General information on iron (III) chloride | 13 |
| A.1 | Origin | 13 |
| A.1.1 | Raw materials | 13 |
| A.2 | Manufacturing process | 13 |
| A.2.1 | General | 13 |
| A.2.2 | Quality of commercial product | 13 |
| A.3 | Use..... | 15 |
| A.3.1 | Function | 15 |
| A.3.2 | Form in which it is used..... | 15 |
| A.3.3 | Treatment dose | 15 |
| A.3.4 | Means of application..... | 15 |
| A.3.5 | Secondary effects | 15 |
| A.3.6 | Removal of excess product..... | 16 |
| Annex B | (normative) General rules relating to safety | 17 |
| B.1 | Rules for safe handling and use..... | 17 |
| B.2 | Emergency procedures..... | 17 |
| B.2.1 | First aid | 17 |
| B.2.2 | Spillage | 17 |
| B.2.3 | Fire | 17 |
| | Bibliography | 18 |