# DIN EN 891:2023-05 (E)

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

## 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 name ..... 6
4.1.2 Synonym or common names ..... 6
4.1.3 Relative molecular mass ..... 6
4.1.4 Empirical formula ..... 6
4.1.5 Chemical formula ..... 6
4.1.6 CAS Registry Number ..... 7
4.1.7 EINECS reference ..... 7
4.2 Commercial form ..... 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 ..... 7
4.3.5 Boiling point at 100 kPa ..... 7
4.3.6 Freezing point ..... 7
4.3.7 Specific heat ..... 7
4.3.8 Viscosity (dynamic) ..... 7
4.3.9 Critical temperature ..... 7
4.3.10 Critical pressure ..... 7
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 ..... 8
5.3 The grade of the product ..... 8
5.4 The type of the product ..... 9

6 Test methods ..... 9
6.1 Sampling ..... 9
6.2 Analyses ..... 9

7 Labelling - Transportation - Storage ..... 9
7.1 Means of delivery ..... 9
7.2 Risk and safety labelling according to the EU Directives ..... 9
7.3 Transportation regulations and labelling ..... 10
7.4 Marking ..... 11
7.5 Storage ..... 11
7.5.1 Long term stability ..... 11

7.5.2 Storage incompatibilities ..... 11

Annex A (informative) General information on iron (III) chloride sulfate ..... 12

A.1 Origin ..... 12
A.1.1 Raw materials ..... 12
A.1.2 Manufacturing process ..... 12
A.2 Quality of commercial product ..... 12
A.3 Use ..... 14
A.3.1 Function ..... 14
A.3.2 Form in which it is used ..... 14
A.3.3 Treatment dose ..... 14
A.3.4 Means of application ..... 14
A.3.5 Secondary effects ..... 14
A.3.6 Removal of excess product ..... 14

Annex B (normative) General rules relating to safety ..... 15

B.1 Rules for safe handling and use ..... 15
B.2 Emergency procedures ..... 15
B.2.1 First aid ..... 15
B.2.2 Spillage ..... 15
B.2.3 Fire ..... 15

Bibliography ..... 16