

Chemicals used for treatment of water intended for
human consumption - Iron (II) sulfate

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Chemicals used for treatment of water intended for human consumption - Iron (II) sulfate

Produits chimiques utilisés pour le traitement de l'eau
destinée à la consommation humaine - Sulfate de fer
(II)

Produkte zur Aufbereitung von Wasser für den
menschlichen Gebrauch - Eisen(II)sulfat

This European Standard was approved by CEN on 25 December 2022.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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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.....	7
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.....	8
4.3.1 Appearance.....	8
4.3.2 Density	8
4.3.3 Solubility (in water)	8
4.3.4 Vapour pressure	8
4.3.5 Boiling point at 100 kPa	8
4.3.6 Melting 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	9
4.3.11 Physical hardness	9
4.4 Chemical properties.....	9
5 Purity criteria	9
5.1 General.....	9
5.2 Composition of commercial product.....	9
5.3 The grade of the product	9
5.4 The type of the product.....	10
6 Test methods	10
6.1 Sampling.....	10
6.2 Analyses.....	10
7 Labelling - Transportation - Storage	11
7.1 Means of delivery	11
7.2 Risk and safety labelling according to the EU Directives.....	11
7.3 Transportation regulations and labelling.....	11
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 (II) sulfate	13
A.1 Origin	13
A.1.1 Raw materials	13
A.1.2 Manufacturing process	13
A.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.....	15
Annex B (normative) General rules relating to safety	16
B.1 General rules relating to safety	16
B.2 Emergency procedures.....	16
B.2.1 First aid	16
B.2.2 Spillage	16
B.2.3 Fire	16
Bibliography	17

European foreword

This document (EN 889:2023) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2023, and conflicting national standards shall be withdrawn at the latest by August 2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 889:2004.

EN 889:2023 includes the following significant technical changes with respect to EN 889:2004:

- removal of the analytical methods from this document and addition of reference to EN 17215 as analytical method standard;
- update of the information of risk and safety labelling of the product to comply with the new regulations (see 7.2 and [2]);
- addition of iron (II) sulfate monohydrate;
- update of the information related to Drinking Water Directive.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this document:

- a) this document provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA;
- b) it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

NOTE Conformity with this document does not confer or imply acceptance or approval of the product in any of the Member States of the EU or EFTA. The use of the product covered by this document is subject to regulation or control by National Authorities.

1 Scope

This document is applicable to iron (II) sulfate heptahydrate and iron (II) sulfate monohydrate used for treatment of water intended for human consumption. It describes the characteristics of iron (II) sulfate heptahydrate and monohydrate, specifies the requirements and the corresponding analytical methods and gives information on their use in water treatment. It also determines the rules relating to safe handling and use of iron (II) sulfate.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 17215, *Chemicals used for treatment of water intended for human consumption — Iron-based coagulants — Analytical methods*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Description

4.1 Identification

4.1.1 Chemical names

- a) Iron (II) sulfate heptahydrate
- b) Iron (II) sulfate monohydrate
- c) Iron (II) sulfate solution

4.1.2 Synonym or common names

- a) Ferrous sulfate, iron vitriol, copperas, green salt
- b) Ferrous sulfate, monohydrate
- c) Ferrous sulfate, solution