

Chemicals used for treatment of water intended for human consumption - Iron (III) sulfate, solid

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Chemicals used for treatment of water intended for human consumption - Iron (III) sulfate, solid

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

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Eisen(III)sulfat, fest

This European Standard was approved by CEN on 2 January 2023.

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

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European foreword

This document (EN 14664:2023) 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of an identical text or by endorsement, at the latest by December 2023, and conflicting national standards shall be withdrawn at the latest by December 2023.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 14664:2004.

The main changes compared to the previous edition are listed below:

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

With respect to 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 or 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 (III) sulfate solid used for treatment of water intended for human consumption. It describes the characteristics of iron (III) sulfate solid and specifies the requirements and the corresponding analytical methods for iron (III) sulfate solid and gives information on its use in water treatment. It also determines the rules relating to safe handling and use of iron (III) sulfate solid.

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 name

Iron (III) sulfate, solid.

4.1.2 Synonym or common names

Ferric sulfate, solid.

4.1.3 Relative molecular mass

499,0 g/mol.

4.1.4 Empirical formula

$\text{Fe}_2(\text{SO}_4)_3 \cdot x \text{H}_2\text{O}$ where x is approximately 5,5.

4.1.5 Chemical formula

$\text{Fe}_2(\text{SO}_4)_3 \cdot x \text{H}_2\text{O}$ where x is approximately 5,5.