



BSI Standards Publication

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

National foreword

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The UK participation in its preparation was entrusted to Technical Committee CII/59, Chemicals and filtering media for water treatment.

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

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

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Eisen(III)chlorid

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European foreword

This document (EN 888:2023) 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of an identical text or by endorsement, at the latest by August 2023, and conflicting national standards shall be withdrawn at the latest by August 2023.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 888:2004.

EN 888:2023 includes the following significant technical changes with respect to EN 888:2004:

- removal of the analytical methods from this standard 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]);
- 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 standard 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 (III) chloride solution a) and iron (III) chloride hexahydrate b) used for treatment of water intended for human consumption. It describes the characteristics and specifies the requirements and the corresponding analytical methods for iron (III) chlorides a) and b) and gives information for their use in water treatment. It also determines the rules relating to safe handling and use of iron (III) chloride.

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 (III) chloride solution.
- b) Iron (III) chloride hexahydrate ($\text{FeCl}_3 \cdot 6 \text{H}_2\text{O}$).

4.1.2 Synonym or common names

- a) Ferric chloride, solution.
- b) Ferric chloride, hexahydrate.

4.1.3 Relative molecular mass

- a) 162,21 g/mol for FeCl_3 .
- b) 270,31 g/mol for $\text{FeCl}_3 \cdot 6 \text{H}_2\text{O}$.