

Institut luxembourgeois de la normalisation de l'accréditation, de la sécurité et qualité des produits et services

ILNAS-EN 14805:2022

Chemicals used for treatment of water intended for human consumption - Sodium chloride for on site electrochlorination using non-

Produits chimiques utilisés pour le traitement de l'eau destinée à la consommation humaine - Chlorure de sodium pour la génération

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Natriumchlorid zur elektrochemischen Erzeugung von Chlor vor Ort mittels

01011010010 0011010010110100101010101111

National Foreword

This European Standard EN 14805:2022 was adopted as Luxembourgish Standard ILNAS-EN 14805:2022.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

https://portail-qualite.public.lu/fr/normes-normalisation/participer-normalisation.html

THIS PUBLICATION IS COPYRIGHT PROTECTED

Nothing from this publication may be reproduced or utilized in any form or by any mean - electronic, mechanical, photocopying or any other data carries without prior permission!

ILNAS-EN 14805:2022**EN 14805**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2022

ICS 71.100.80

Supersedes EN 14805:2008

English Version

Chemicals used for treatment of water intended for human consumption - Sodium chloride for on site electrochlorination using non-membrane technology

Produits chimiques utilisés pour le traitement de l'eau destinée à la consommation humaine - Chlorure de sodium pour la génération électrochimique de chlore utilisant des technologies non membranaires

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Natriumchlorid zur elektrochemischen Erzeugung von Chlor vor Ort mittels membranloser Verfahren

This European Standard was approved by CEN on 20 March 2022.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Page

	Conto	ents	Page
	Europ	ean foreword	3
	Introduction		4
	1	Scope	5
	2	Normative references	5
	3	Terms and definitions	5
	4	Description	6
	4.1	Identification	
do		Commercial forms	
-Sh	4.3	Physical properties	
Se	4.4	Chemical properties	
- Preview only Copy via ILNAS e-Shop	5	Purity criteria	8
a II	5.1	General	
y vi	5.2	Composition of commercial product	8
op)	5.3	Impurities and main by-products	
.y C	5.4	Chemical parameters	
luo.	6	Test methods	10
iew	6.1	Sampling	10
rev	6.2	Analyses	
	7	Labelling - transportation - storage	14
022	7.1	Means of delivery	14
5:2	7.2	Risk and safety labelling in accordance with EU directives	14
180	7.3	Transportation regulations and labelling	14
1 14	7.4	Marking	
卓	7.5	Storage	
ILNAS-EN 14805:2022	Annex	A (informative) General information on sodium chloride for electrochlorination	16
	Annex	B (normative) Analytical methods	18

European foreword

This document (EN 14805:2022) 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 October 2022, and conflicting national standards shall be withdrawn at the latest by October 2022.

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 14805:2008.

In comparison with the previous edition EN 14805:2008, the following technical modifications have been made:

- a) modification of 7.3 on transportation regulations and labelling, adding the sentence "The user must be aware of the incompatibilities between transported products.";
- b) modification of 7.4 on marking. The requirements of marking are also applied to the accompanying documents;
- c) deletion of reference to EU Directive 67/548/EEC of June 27, 1967 in order to take into account the latest Regulation in force (see [2]);
- d) EU Directive 98/83/EC (see [1]) of 3 November 1998 shall be taken into account the latest Regulation in force for drinking water.
- e) modification of moisture content in Table 2, to be in line with EN 973:2009 and EN 16401:2013.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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 1 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.

NOTE 2 This product could qualify as a biocide precursor and needs to comply with the relevant legislation in force. In the European Union, at the time of publication, this legislation is Regulation (EU) No. 528/2012.

1 Scope

This document is applicable to sodium chloride intended for on-site electrochlorination of water intended for human consumption using non-membrane technology. It describes the characteristics and specifies the requirements and the corresponding test methods for sodium chloride (see Annex B). It gives information on its use in water treatment.

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 973:2009, Chemicals used for treatment of water intended for human consumption - Sodium chloride for regeneration of ion exchangers

EN ISO 3696, Water for analytical laboratory use - Specification and test methods (ISO 3696)

ISO 2479, Sodium chloride for industrial use — Determination of matter insoluble in water or in acid and preparation of principal solutions for other determinations

ISO 2480, Sodium chloride for industrial use — Determination of sulphate content — Barium sulphate gravimetric method

ISO 2482, Sodium chloride for industrial use — Determination of calcium and magnesium contents — EDTA complexometric methods

ISO 2483, Sodium chloride for industrial use — Determination of the loss of mass at 110 degrees C

ISO 3165, Sampling of chemical products for industrial use — Safety in sampling

ISO 6206, Chemical products for industrial use — Sampling — Vocabulary

ISO 6227, Chemical products for industrial use — General method for determination of chloride ions — Potentiometric method

ISO 8213, Chemical products for industrial use — Sampling techniques — Solid chemical products in the form of particles varying from powders to coarse lumps

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological 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

Sodium chloride

4.1.2 Synonym or common name

Salt

4.1.3 Relative molecular mass

58,45

4.1.4 Empirical formula

NaCl

4.1.5 Chemical formula

NaCl

4.1.6 CAS Registry Number ¹

7647-14-5

4.1.7 EINECS Reference ²

231-598-3

4.2 Commercial forms

The product is available as rock salt, sea salt or evaporated salt, and it is supplied as free-flowing crystals or their compacted forms.

4.3 Physical properties

4.3.1 Appearance

The product is white and crystalline.

4.3.2 Density

The density of the solid crystal is 2,16 g/cm³ at 20 °C.

The bulk density depends on the particle size distribution.

4.3.3 Solubility (in water)

The solubility of the product depends on the temperature as given in Figure 1.

¹ Chemical Abstracts Service Registry Number.

² European Inventory of Existing Commercial chemical Substances Reference.