



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

ILNAS-EN 14805:2008

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

06/2008



National Foreword

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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 29 May 2008.

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Foreword

This document (EN 14805:2008) 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of an identical text or by endorsement, at the latest by December 2008, and conflicting national standards shall be withdrawn at the latest by December 2008.

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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 European Standard:

- a) this European Standard 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 European 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 European Standard is subject to regulation or control by National Authorities.

1 Scope

This European Standard 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 referenced documents are indispensable for the application 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 973:2002, *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 3696:1987)*

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 Description

3.1 Identification

3.1.1 Chemical name

Sodium chloride

3.1.2 Synonym or common name

Salt

3.1.3 Relative molecular mass

58,45

3.1.4 Empirical formula

NaCl

3.1.5 Chemical formula

NaCl

3.1.6 CAS Registry Number¹⁾

7647-14-5

3.1.7 EINECS Reference²⁾

231-598-3

3.2 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.

3.3 Physical properties**3.3.1 Appearance**

The product is white and crystalline.

3.3.2 Density

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

The bulk density depends on the particle size distribution.

1) Chemical Abstracts Service Registry Number.

2) European Inventory of Existing Commercial chemical Substances Reference.