

# SVENSK STANDARD

## SS-EN 15362:2014



Fastställt/Approved: 2014-05-19  
Publicerad/Published: 2014-05-20  
Utgåva/Edition: 2  
Språk/Language: engelska/English  
ICS: 13.060.20; 71.100.80

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### **Kemikalier för behandling av vatten för simbassänger – Natriumkarbonat**

### **Chemicals used for treatment of swimming pool water – Sodium carbonate**

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Denna standard ersätter SS-EN 15362:2007, utgåva 1.

The European Standard EN 15362:2014 has the status of a Swedish Standard. This document contains the official version of EN 15362:2014.

This standard supersedes the Swedish Standard SS-EN 15362:2007, edition 1.

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EUROPEAN STANDARD

**EN 15362**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2014

ICS 71.100.80

Supersedes EN 15362:2007

English Version

## Chemicals used for treatment of swimming pool water - Sodium carbonate

Produits chimiques utilisés pour le traitement de l'eau des piscines - Carbonate de sodium

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Natriumcarbonat

This European Standard was approved by CEN on 20 March 2014.

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.

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## Foreword

This document (EN 15362:2014) 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of an identical text or by endorsement, at the latest by November 2014 and conflicting national standards shall be withdrawn at the latest by November 2014.

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

This document supersedes EN 15362:2007.

The significant technical difference between this edition and EN 15362:2007 is as follows:

- updating of 6.2 in line with current legislation.

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## Introduction

In respect of the potential adverse effects on the quality of swimming pool water 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 European Standard is applicable to sodium carbonate used directly, or for the production of formulations, for the treatment of water for swimming pools. It describes the characteristics of sodium carbonate and specifies the requirements and the corresponding test methods for sodium carbonate. It provides information on its use in swimming pool water treatment. It also determines the rules relating to safe handling and use of sodium carbonate (see Annex B).

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 897, *Chemicals used for treatment of water intended for human consumption - Sodium carbonate*

## 3 Description

### 3.1 Identification

#### 3.1.1 Chemical name

Sodium carbonate.

#### 3.1.2 Synonym or common name

Soda ash, anhydrous sodium carbonate, light soda ash, heavy soda ash.

#### 3.1.3 Relative molecular mass

105,99.

#### 3.1.4 Empirical formula

$\text{Na}_2\text{CO}_3$ .

#### 3.1.5 Chemical formula

$\text{Na}_2\text{CO}_3$ .

#### 3.1.6 CAS Registry Number<sup>1)</sup>

497-19-8.

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<sup>1)</sup> Chemical Abstracts Service Registry Number.

### 3.1.7 EINECS reference<sup>2)</sup>

207-838-8.

## 3.2 Commercial forms

The product is available as dry powder or fine granules and is described as light soda or heavy soda according to bulk density (see 3.3.2).

## 3.3 Physical properties

### 3.3.1 Appearance

The product is a white powder or crystals, slightly hygroscopic.

### 3.3.2 Density

The density of this product is 2,53 g/cm<sup>3</sup>.

The bulk density is:

- ranging from 0,5 kg/dm<sup>3</sup> to 0,65 kg/dm<sup>3</sup> (light soda ash);
- ranging from 0,8 kg/dm<sup>3</sup> to 1,2 kg/dm<sup>3</sup> (heavy soda ash).

### 3.3.3 Solubility in water

The product is soluble at 212 g/l at 20 °C.

### 3.3.4 Vapour pressure

Not applicable.

### 3.3.5 Boiling point at 100 kPa<sup>3)</sup>

Not applicable.

### 3.3.6 Melting point

851 °C.

### 3.3.7 Specific heat

1,043 J/(kg. K).

### 3.3.8 Viscosity (dynamic)

Not applicable.

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<sup>2)</sup> European Inventory of Existing Commercial Chemical Substances.

<sup>3)</sup> 100 kPa = 1 bar.