



SLOVENSKI STANDARD

SIST EN 15075:2013

01-junij-2013

Nadomešča:
SIST EN 15075:2006

Kemikalije, ki se uporabljajo za pripravo bazenske vode - Natrijev hidrogen karbonat

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

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Natriumhydrogencarbonat

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

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ICS:

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71.100.80	Kemikalije za čiščenje vode	Chemicals for purification of water

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EUROPEAN STANDARD

EN 15075

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

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

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Natriumhydrogencarbonat

This European Standard was approved by CEN on 14 March 2013.

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

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EN 15075:2013 (E)**Foreword**

This document (EN 15075:2013) 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of an identical text or by endorsement, at the latest by November 2013, and conflicting national standards shall be withdrawn at the latest by November 2013.

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 15075:2006.

Significant technical differences between this edition and EN 15075:2006 are as follows:

- Updating of subclause 6.2 in line with current legislation.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

In respect of potential adverse effects on the quality of water for swimming pools caused by the product covered by this European Standard, the following statements apply:

- This European Standard provides no information as to whether the products may be used without restriction in any of the Member States of the EU or EFTA.
- It should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of these products remain in force.

NOTE Conformity with the 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.

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EN 15075:2013 (E)

1 Scope

This European Standard is applicable to sodium hydrogen carbonate used directly or used to prepare commercial formulations for treating swimming pool water. It describes the characteristics of sodium hydrogen carbonate and specifies the requirements and the corresponding test methods for sodium hydrogen carbonate. It gives information on its use in treating swimming pool water.

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 898, *Chemicals used for treatment of water intended for human consumption — Sodium hydrogen carbonate*

3 Description

3.1 Identification

3.1.1 Chemical name

Sodium hydrogen carbonate.

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3.1.2 Synonym or common name

Sodium bicarbonate, bicarbonate of soda, baking soda.

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3.1.3 Relative molecular mass

84,01.

3.1.4 Empirical formula

NaHCO₃.

3.1.5 Chemical formula

NaHCO₃.

3.1.6 CAS Registry Number¹⁾

144-55-8.

3.1.7 EINECS reference²⁾

205-633-8.

¹⁾ Chemical Abstracts Service Registry Number.

²⁾ European Inventory of Existing Commercial Chemical Substances.

3.2 Commercial forms

The product is available as powder or crystals.

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 2,2 g/cm³.

The bulk density is ranging from 0,5 kg/dm³ to 1,1 kg/dm³.

3.3.3 Solubility in water

The product is soluble at 95 g/l at 20 °C.

3.3.4 Vapour pressure

Not applicable.

3.3.5 Boiling point at 100 kPa³⁾

Not applicable.

3.3.6 Melting point

Not applicable. The product decomposes at 50 °C.

3.3.7 Specific heat

1,197 J/(kg K).

3.3.8 Viscosity (dynamic)

Not applicable.

3.3.9 Critical temperature

Not applicable.

3.3.10 Critical pressure

Not applicable.

3.3.11 Physical hardness

The hardness of solid sodium hydrogen carbonate is given as 1,5 to 2 on the Mohs' scale of hardness.

³⁾ 100 kPa = 1 bar.

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