
Kemikalije, ki se uporabljajo za pripravo bazenske vode - Kalijev peroksimonosulfat

Chemicals used for treatment of swimming pool water - Potassium peroxomonosulfate

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Kaliumperoxomonosulfat

Produits chimiques utilisés pour le traitement de l'eau des piscines - Peroxomonosulfate de potassium

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Chemicals used for treatment of swimming pool water - Potassium peroxomonosulfate

Produits chimiques utilisés pour le traitement de l'eau des
piscines - Peroxomonosulfate de potassium

Produkte zur Aufbereitung von Schwimm- und
Badebeckenwasser - Kaliumperoxomonosulfat

This European Standard was approved by CEN on 26 October 2013.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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EN 16380:2013 (E)**Foreword**

This document (EN 16380:2013) 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of an identical text or by endorsement, at the latest by June 2014, and conflicting national standards shall be withdrawn at the latest by June 2014.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.

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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:

- 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.

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1 Scope

This European Standard is applicable to potassium peroxomonosulfate used for treatment of water for swimming pools. It describes the characteristics of potassium peroxomonosulfate and specifies the requirements and the corresponding test methods for potassium peroxomonosulfate. It gives information on its use in swimming pool water treatment. It also determines the rules relating to safe handling and use (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 12678, *Chemicals used for treatment of water intended for human consumption — Potassium peroxomonosulfate*

3 Description

3.1 Identification

3.1.1 Chemical name

Potassium peroxomonosulfate.

3.1.2 Synonym or common name

Potassium monopersulfate.

3.1.3 Relative molecular mass

- a) Triple salt: 614,76;
- b) Active ingredient KHSO_5 : 152,17.

3.1.4 Empirical formula of triple salt

$\text{K}_5\text{H}_3\text{S}_4\text{O}_{18}$ ($2 \text{KHSO}_5 \cdot \text{KHSO}_4 \cdot \text{K}_2\text{SO}_4$)

3.1.5 Chemical formula of active ingredient

KHSO_5 active ingredient.

3.1.6 CAS Registry Number¹⁾

70693-62-8 referring to KHSO_5 .

1) Chemical Abstracts Service Registry Number.

3.1.7 EINECS reference²⁾

274-778-7 referring to KHSO_5 .

3.2 Commercial form

Potassium peroxomonosulfate as a commercial product exists as a triple salt comprising potassium peroxomonosulfate (2KHSO_5) potassium hydrogen sulfate (KHSO_4) and potassium sulfate (K_2SO_4).

3.3 Physical properties of triple salt**3.3.1 Appearance and odour**

The product is a white, odourless, granular, free-flowing salt.

3.3.2 Density

The bulk density of the product is approximately between 1 g/cm^3 and $1,2 \text{ g/cm}^3$.

3.3.3 Solubility in water

The solubility of the product is:

— approximately 250 g/l at 20°C ;

— approximately 300 g/l at 50°C ;

— approximately 330 g/l at 70°C .

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3.3.4 Vapour pressure

Not applicable.

3.3.5 Boiling point at 100 kPa ³⁾

Not applicable.

3.3.6 Melting point

The product decomposes above 60°C .

3.3.7 Specific heat

Not applicable.

3.3.8 Viscosity (dynamic)

Not applicable.

2) European inventory of Existing Commercial chemical Substances.

3) $100 \text{ kPa} = 1 \text{ bar}$.