

STN	Chemikálie používané pri úprave vody na pitnú vodu Hydrogensiričitan sodný	STN EN 12120 75 8202
------------	---	--

Chemicals used for treatment of water intended for human consumption - Sodium hydrogen sulfite

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/22

Obsahuje: EN 12120:2022

Oznámením tejto normy sa ruší
STN EN 12120 (75 8202) z apríla 2013

EUROPEAN STANDARD

EN 12120

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2022

ICS 71.100.80

Supersedes EN 12120:2012

English Version

Chemicals used for treatment of water intended for human consumption - Sodium hydrogen sulfite

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

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Natriumhydrogensulfit

This European Standard was approved by CEN on 13 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

EN 12120:2022 (E)

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Description	6
4.1	Identification	6
4.1.1	Chemical name	6
4.1.2	Synonym or commons name	6
4.1.3	Relative molecular mass	6
4.1.4	Empirical formula	6
4.1.5	Chemical formula	7
4.1.6	CAS-Registry Number	7
4.1.7	EINECS reference	7
4.2	Commercial form	7
4.3	Physical properties	7
4.3.1	Appearance and odour	7
4.3.2	Density	7
4.3.3	Solubility (in water)	7
4.3.4	Vapour pressure	7
4.3.5	Boiling point at 100 kPa	7
4.3.6	Crystallization point	7
4.3.7	Specific heat	7
4.3.8	Viscosity dynamic	7
4.3.9	Critical temperature	7
4.3.10	Critical pressure	8
4.3.11	Physical hardness	8
4.4	Chemical properties	8
5	Purity criteria	8
5.1	General	8
5.2	Composition of commercial product	8
5.3	Impurities and main by-products	8
5.4	Chemical parameters	8
6	Test methods	9
6.1	Sampling	9
6.1.1	General	9
6.1.2	Sampling from drums and bottles	9
6.1.3	Sampling from tanks and tankers	10
6.2	Analyses	10
6.2.1	General	10
6.2.2	Main product	10
6.2.3	Impurities	11
6.2.4	Chemical parameters	12
7	Labelling, transportation, storage	17

7.1	Means of delivery	17
7.2	Labelling	17
7.3	Transportation labelling	17
7.4	Marking	18
7.5	Storage	18
7.5.1	Long term stability	18
7.5.2	Storage incompatibilities	18
Annex A (informative) General information on sodium hydrogen sulfite		19
A.1	Origin	19
A.1.1	Raw materials	19
A.1.2	Manufacturing process	19
A.2	Use	19
A.2.1	Function	19
A.2.2	Form in which it is used	19
A.2.3	Treatment dose	19
A.2.4	Means of application	19
A.2.5	Secondary effects	19
A.2.6	Removal of excess product	19
Annex B (normative) General rules relating to safety		20
B.1	Rules for safe handling and use	20
B.2	Emergency procedures	20
B.2.1	First aid	20
B.2.2	Spillage	20
B.2.3	Fire	20
Bibliography		21

EN 12120:2022 (E)**European foreword**

This document (EN 12120:2022) 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 12120:2012.

In comparison with the previous edition EN 12120:2012, the following technical modifications have been made:

- a) modification of 7.3 on transportation regulations and labelling, adding the sentence “The user shall 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) use of the changed classification and labelling (see 7.2).

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 a 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 (see Annex A).

EN 12120:2022 (E)**1 Scope**

This document is applicable to sodium hydrogen sulfite used for treatment of water intended for human consumption. It describes the characteristics of sodium hydrogen sulfite and specifies the requirements and the corresponding test methods for sodium hydrogen sulfite. 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 ISO 3696, *Water for analytical laboratory use — Specification and test methods (ISO 3696)*

ISO 418, *Photography — Processing chemicals — Specifications for anhydrous sodium sulfite*

ISO 5993, *Sodium hydroxide for industrial use — Determination of mercury content — Flameless atomic absorption spectrometric method*

ISO 6353-1, *Reagents for chemical analysis — Part 1: General test methods*

ISO 9297, *Water quality — Determination of chloride — Silver nitrate titration with chromate indicator (Mohr's method)*

ISO 22743, *Water quality — Determination of sulfates — Method by continuous flow analysis (CFA)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN