



DPC: 21/30430855 DC

BSI Group Headquarters

389 Chiswick High Road London W4 4AL

Tel: +44 (0)20 8996 9000

Fax: +44 (0)20 8996 7400

www.bsigroup.com

Date: 25 February 2021

Origin: European

Latest date for receipt of comments: 20 April 2021

Project No. 2020/03284

Responsible committee: CII/59 Chemicals and filtering media for water treatment

Interested committees:

Title: Draft BS EN 936 Chemicals used for treatment of water intended for human consumption - Carbon dioxide.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

WARNING: THIS IS A DRAFT AND MUST NOT BE REGARDED OR USED AS A BRITISH STANDARD. THIS DRAFT IS NOT CURRENT BEYOND 20 April 2021This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

No copying is allowed, in any form, without prior written permission from BSI except as permitted under the Copyright, Designs and Patent Act 1988 or for circulation within a nominating organization for briefing purposes. Electronic circulation is limited to dissemination by e-mail within such an organization by committee members.

Further copies of this draft may be purchased from BSI Shop <http://shop.bsigroup.com> or from BSI Customer Services, Tel: +44(0) 20 8996 9001 or email cservices@bsigroup.com. British, International and foreign standards are also available from BSI Customer Services.Information on the co-operating organizations represented on the committees referenced above may be obtained from <https://standardsdevelopment.bsigroup.com/>.

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
------------------	------------------------

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

English Version

Chemicals used for treatment of water intended for human consumption - Carbon dioxide

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

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Kohlenstoffdioxid

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 164.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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 common name.....	6
4.1.3 Relative molecular mass	6
4.1.4 Empirical formula.....	6
4.1.5 Chemical formula.....	6
4.1.6 CAS Registry Number.....	6
4.1.7 EINECS reference.....	6
4.2 Commercial form	7
4.3 Physical properties	7
4.3.1 Appearance	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 Melting 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.....	7
4.3.11 Physical hardness	7
4.4 Chemical properties.....	7
5 Purity criteria.....	8
5.1 General.....	8
5.2 Composition of commercial product	8
5.3 By-products.....	8
5.4 Chemicals parameters.....	9
6 Test methods	10
6.1 Sampling.....	10
6.2 Analysis	10
6.2.1 Carbon dioxide.....	10
6.2.2 Impurities	10
7 Labelling - Transportation - Storage.....	10
7.1 Means of delivery	10
7.2 Labelling according to the EU legislation	11
7.3 Transportation regulations and labelling	11
7.4 Marking	12
7.5 Storage	12

Annex A (informative) General information on carbon dioxide.....	13
A.1 Origin	13
A.1.1 Raw materials	13
A.1.2 Manufacturing process	13
A.2 Use.....	13
A.2.1 Function	13
A.2.2 Form in which it is used	13
A.2.3 Treatment dose	13
A.2.4 Means of application.....	13
A.2.5 Secondary effects	13
A.2.6 Removal of excess of product.....	13
A.3 General rules relating to safety	13
A.3.1 Rules for safe handling and use.....	13
A.3.2 Emergency procedures.....	14
Bibliography	15

European foreword

This document (prEN 936:2021) has been prepared by Technical Committee CEN/TC 164 “Water Supply”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 936:2013.

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

- possible impurities are taken into account and partly changed in Table 2;
- update of the references quoted in the Bibliography;
- modification of 7.3 on transportation regulations and labelling, adding the sentence “The user shall be aware of the incompatibilities between transported products.”;
- modification of 7.4 on marking. The requirements of marking are also applied to the accompanying documents, and the regulation [6] is now quoted.