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Influence of organic materials on water intended for human consumption - Determination of odour, flavour, colour and turbidity of water in piping and storage systems

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. 07/26

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English Version

**Influence of organic materials on water intended for
human consumption - Determination of odour, flavour,
colour and turbidity of water in piping and storage
systems**

Influence des matériaux organiques sur l'eau destinée
à la consommation humaine - Détermination de
l'odeur, de la saveur, de la couleur et de la turbidité de
l'eau dans les réseaux de conduites et les systèmes de
stockage

Einfluss von organischen Werkstoffen auf Wasser für
den menschlichen Gebrauch - Bestimmung des Geruchs
und Geschmacks des Wassers in Rohrleitungssystemen

This European Standard was approved by CEN on 20 March 2026.

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

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

EN 1420:2026 (E)

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EN 1420:2026 (E)**European foreword**

This document (EN 1420:2026) 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of an identical text or by endorsement, at the latest by October 2026, and conflicting national standards shall be withdrawn at the latest by October 2026.

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 1420:2016, EN 13052-1:2001 and EN 14395-1:2004.

With regard to the previous edition EN 1420:2016, EN 13052-1:2001 and EN 14395-1:2004 the following changes were made:

- the test methods for turbidity and colour have been included,
- the scope of the document has been extended: all organic products (included storage systems) can be tested according to this document.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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, Türkiye and the United Kingdom.

Introduction

This document is intended to safeguard the quality of drinking water for human consumption by providing a framework for monitoring and evaluating potential adverse effects arising from contact with materials used in conveyance and distribution systems. The adverse effects considered are limited to changes in odour, taste, colour, and turbidity.

EN 1420:2026 (E)**1 Scope**

This document specifies a procedure for obtaining a migration water to determine odour, flavour, colour and turbidity for products made from organic materials intended to come in contact with water for human consumption (drinking water) and used in piping and storage systems. Such products include pipes, tanks, reservoirs, fittings, ancillaries and their coatings both for site applied and factory-made products.

This document is applicable to products to be used under various conditions for the transport, storage and distribution of water intended for human consumption and raw water used for the manufacture of water intended for human consumption.

This document specifies a test method comprising a set of procedures. The use may be dependent on the relevant national regulations and/or the Commission Implementing Decision (EU) 2024/368.

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 1622, *Water quality - Determination of the threshold odour number (TON) and threshold flavour number (TFN)*

EN 12873-1:2014, *Influence of materials on water intended for human consumption - Influence due to migration - Part 1: Test method for factory-made products made from or incorporating organic or glassy (porcelain/vitreous enamel) materials*

EN 12873-2, *Influence of materials on water intended for human consumption - Influence due to migration - Part 2: Test method for non-metallic and noncementitious site-applied materials*

EN ISO 7393-2, *Water quality - Determination of free chlorine and total chlorine - Part 2: Colorimetric method using N,N-dialkyl-1,4-phenylenediamine, for routine control purposes (ISO 7393-2)*

EN ISO 7027-1:2016, *Water quality - Determination of turbidity - Part 1: Quantitative methods (ISO 7027-1:2016)*

EN ISO 7887:2011, *Water quality - Examination and determination of colour (ISO 7887:2011)*

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