
Kemikalije, ki se uporabljajo za pripravo pitne vode - Ozon

Chemicals used for treatment of water intended for human consumption - Ozone

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Ozon

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

Ta slovenski standard je istoveten z: EN 1278:2026

ICS:

13.060.20	Pitna voda	Drinking water
71.100.80	Kemikalije za čiščenje vode	Chemicals for purification of water

SIST EN 1278:2026**en,fr,de**

Sample Document

get full document from standards.iteh.ai

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1278

September 2026

ICS 71.100.80

Supersedes EN 1278:2010

English Version

**Chemicals used for treatment of water intended for human
consumption - Ozone**

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

Produkte zur Aufbereitung von Wasser für den
menschlichen Gebrauch - Ozon

This European Standard was approved by CEN on 26 July 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.

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, Türkiye and United Kingdom.

get full document from standards.iteh.ai



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

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

© 2026 CEN All rights of exploitation in any form and by any means reserved
worldwide for CEN national Members.

Ref. No. EN 1278:2026 E

Contents	Page
European foreword	3
Introduction	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions.....	5
4 Description.....	5
4.1 Identification	5
4.2 Commercial form	6
4.3 Physical properties	6
4.4 Chemical properties.....	8
5 Purity criteria.....	8
5.1 General.....	8
5.2 Composition of <i>in-situ</i> generated ozone gas	8
5.3 Impurities and main by-products	9
5.4 Chemical parameters.....	9
6 Test methods	9
7 Labelling – Transportation – Storage	9
7.1 Materials in contact with ozone.....	9
7.2 Risk and safety classification.....	9
7.3 Transportation regulations and labelling	10
7.4 Marking	11
7.5 Stability.....	11
Annex A (informative) General information on ozone.....	12
A.1 Feed gas	12
A.2 Use	12
A.3 Operational control methods	13
Annex B (normative) General rules relating to safety.....	16
B.1 Rules for safe handling and use	16
B.2 Emergency procedures	16
Bibliography	18

European foreword

This document (EN 1278:2026) 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 March 2027, and conflicting national standards shall be withdrawn at the latest by March 2027.

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 1278:2010.

EN 1278:2026 includes the following significant technical changes with respect to EN 1278:2010:

- proposed harmonized classification of ozone according to EU CLP regulation is added;
- reference for use of ozone is made to EU BPR and EU REACH regulation;
- new threshold limit for ozone in air;
- reference is made to EN 17971, standard for ozone generation devices. Device related matters are shifted to EN 17971, e.g. operational safety of the installation room. Matters of the chemical ozone itself remain within this document.

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

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this document, it provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA.

NOTE 1 While awaiting the adoption of verifiable European criteria, attention is drawn to national regulations.

Ozone is a biocidal product according to the Regulation (EU) No 528/2012 [1]. The use of *in-situ* generated ozone for disinfection purposes falls under the provisions of the BPR, requiring access by the user to a data set for the product authorization of ozone under the BPR. This access may be achieved directly or indirectly e.g. via the manufacturers' authorization for ozone generated by their devices.

Users of *in-situ* generated ozone should verify with their device manufacturer, if they can use ozone in accordance with his product authorization for the disinfection of water intended for human consumption (approved [2] under the BPR for drinking water use).

Non-biocidal use of ozone, e.g. for oxidative purposes, falls under the provisions of the REACH Regulation [3]. The use of ozone for non-biocidal purposes requires individual access by the user to the data set provided for the authorization of ozone under REACH.

NOTE 2 Conformity with the standard does not confer or imply authorization 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.

Sample Document

get full document from standards.iteh.ai

1 Scope

This document is applicable to ozone used for treatment of water intended for human consumption. It describes the characteristics of ozone, specifies tests methods for determining the ozone concentration in gases and determines rules for safe handling of the chemical ozone.

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 17971, *Devices for in-situ generation of biocides — Ozone*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

normal temperature and pressure of gas

NTP

gas under the conditions of normal temperature $t_n = 0\text{ °C}$ and normal pressure $p_n = 101\,325\text{ Pa}$

3.2

feed gas

substance that is fed as gas to the ozone generation device to generate ozone

4 Description

4.1 Identification

4.1.1 Chemical name

Ozone.

General information on ozone is described in Annex A.

4.1.2 Synonym or common name

None (has sometimes been called improperly “allotropic oxygen”).

4.1.3 Relative molecular mass

48.

4.1.4 Empirical formula

O₃.

4.1.5 Chemical formula

O₃.