

Chemicals used for treatment of water intended for human consumption — Methanol

ICS 13.060.20; 71.100.80

National foreword

This British Standard is the UK implementation of EN 13177:2010. It supersedes BS EN 13177:2002 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CII/59, Chemicals for drinking water treatment.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

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

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

Produkte zur Aufbereitung von Wasser für den
menschlichen Gebrauch - Methanol

This European Standard was approved by CEN on 28 February 2010.

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Foreword

This document (EN 13177:2010) 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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

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.

This document supersedes EN 13177:2002.

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Differences between this edition and EN 13177:2002 are editorial to harmonize the text with other standards in this series.

Introduction

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this Standard:

- a) this 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 the 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.

1 Scope

This European Standard is applicable to synthetic methanol used for treatment of water intended for human consumption. It describes the characteristics of synthetic methanol and specifies the requirements and the corresponding test methods for synthetic methanol. Annex A gives information on its use in water treatment.

2 Normative references

The following referenced documents are indispensable for the application 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 1483, *Water quality — Determination of mercury*

EN 26595, *Water quality — Determination of total arsenic — Silver diethyldithiocarbamate spectrophotometric method (ISO 6595:1982)*

EN ISO 3696, *Water for analytical laboratory use — Specification and test methods (ISO 3696:1987)*

ISO 3165, *Sampling of chemical products for industrial use — Safety in sampling*

ISO 3856-2, *Paints and varnishes — Determination of "soluble" metal content — Part 2: Determination of antimony content — Flame atomic absorption spectrometric method and Rhodamine B spectrophotometric method*

ISO 6206, *Chemical products for industrial use — Sampling — Vocabulary*

ISO 8288, *Water quality — Determination of cobalt, nickel, copper, zinc, cadmium and lead — Flame atomic absorption spectrometric methods*

ISO 9174, *Water quality — Determination of chromium — Atomic absorption spectrometric methods*

ISO 9965, *Water quality — Determination of selenium — Atomic absorption spectrometric method (hydride technique)*

3 Description

3.1 Identification

3.1.1

chemical name

methanol

3.1.2

synonym or common names

methyl alcohol, carbinol

3.1.3

relative molecular mass

32,04

3.1.4

empirical formula

CH₄O

3.1.5

chemical formula

CH₃OH

3.1.6

CAS Registry Number ¹⁾

67-56-1

3.1.7

EINECS reference ²⁾

200-65-96

3.2 Commercial form

The product is available as colourless liquid.

3.3 Physical properties

3.3.1

appearance

the product is a colourless liquid at 20 °C

3.3.2

density

the density at 20 °C is given in Table 1 (see [3] and [4])

Table 1 — Density

Concentration % mass fraction	Density g/ml
90	0,8219
92	0,8163
94	0,8103
96	0,8048
98	0,7990
99,85	0,7936
100	0,7931

3.3.3

solubility in water

Miscible

3.3.4

vapour pressure

12,7 kPa at 20 °C (for pure methanol)

¹⁾ Chemical Abstracts Service Registry Number.

²⁾ European Inventory of Existing Commercial Chemical Substances.