



SLOVENSKI STANDARD
SIST EN ISO 13162:2015
01-oktober-2015

Kakovost vode - Določanje aktivnosti ogljika C-14 - Metoda štetja s tekočinskim scintilatorjem (ISO 13162:2011)

Water quality - Determination of carbon 14 activity -- Liquid scintillation counting method (ISO 13162:2011)

Wasserbeschaffenheit - Bestimmung der Aktivität von Kohlenstoff-14 - Verfahren mit dem Flüssigszintillationszähler (ISO 13162:2011)

Qualité de l'eau - Détermination de l'activité volumique du carbone 14 - Méthode par comptage des scintillations en milieu liquide (ISO 13162:2011)

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Ta slovenski standard je istoveten z: EN ISO 13162:2015

ICS:

13.060.60	Preiskava fizikalnih lastnosti vode	Examination of physical properties of water
17.240	Merjenje sevanja	Radiation measurements

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en,fr,de

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EUROPEAN STANDARD

EN ISO 13162

NORME EUROPÉENNE

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August 2015

ICS 17.240; 13.060.60

English Version

Water quality - Determination of carbon 14 activity - Liquid scintillation counting method (ISO 13162:2011)

Qualité de l'eau - Détermination de l'activité volumique du carbone 14 - Méthode par comptage des scintillations en milieu liquide (ISO 13162:2011)

Wasserbeschaffenheit - Bestimmung der Aktivität von Kohlenstoff-14 - Verfahren mit dem Flüssigszintillationszähler (ISO 13162:2011)

This European Standard was approved by CEN on 30 July 2015.

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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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

The text of ISO 13162:2011 has been prepared by Technical Committee ISO/TC 147 “Water quality” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 13162:2015 by Technical Committee CEN/TC 230 “Water analysis” the secretariat of which is held by DIN.

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 February 2016, and conflicting national standards shall be withdrawn at the latest by February 2016.

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.

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Endorsement notice

The text of ISO 13162:2011 has been approved by CEN as EN ISO 13162:2015 without any modification.

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INTERNATIONAL
STANDARD

ISO
13162

First edition
2011-11-01

**Water quality — Determination of
carbon 14 activity — Liquid scintillation
counting method**

*Qualité de l'eau — Détermination de l'activité volumique du
carbone 14 — Méthode par comptage des scintillations en milieu liquide*

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ISO 13162:2011(E)**Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 13162 was prepared by Technical Committee ISO/TC 147, *Water quality*.

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Introduction

The carbon 14 (^{14}C) present in the environment is of natural origin and man made. As a result of atmospheric nuclear weapon testing, emissions from nuclear engineering installations, and the application and processing of isotopes, relatively large amounts of ^{14}C have been released into the environment. Due to the substantial proportion of ^{14}C in the human internal dose contribution, monitoring of ^{14}C activity concentrations in the environment is necessary in order to follow its circulation in the hydrosphere and biosphere. ^{14}C is the second radionuclide (~3 500 Bq) to contribute to the human body natural radioactivity, behind ^{40}K (~6 000 Bq).

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