

**Laboratoorsel analüüsimisel kasutatav vesi.
Iseloomustus ja katsemeetodid**

Water for analytical laboratory use - Specification
and test methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 3696:2000 sisaldab Euroopa standardi EN ISO 3696:1995 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 11.01.2000 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 3696:2000 consists of the English text of the European standard EN ISO 3696:1995.

This standard is ratified with the order of Estonian Centre for Standardisation dated 11.01.2000 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

ICS 71.040.01

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EUROPEAN STANDARD

EN ISO 3696

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Descriptors: inorganic chemistry, chemical analysis, chemical reagents, water, classification, specifications, tests, storage

English version

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

Eau pour laboratoire à usage analytique
Spécification et méthodes d'essai
(ISO 3696:1987)

Wasser für analytische Laborzwecke -
Spezifikation und Prüfverfahren (ISO 3696:1987)

This European Standard was approved by CEN on 1995-02-13. 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.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
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Foreword

The text of the International Standard has been taken as a European Standard by the Technical Committee CEN/TC 19 "Petroleum products, lubricants, and related products" from ISO/TC 47 "Chemistry" of the International Organization for Standardization (ISO).

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of an identical text or by endorsement, at the latest by October 1995, and conflicting national standards shall be withdrawn at the latest by October 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 3696:1987 has been approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Water for analytical laboratory use — Specification and test methods

Eau pour laboratoire à usage analytique — Spécification et méthodes d'essai

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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 3696 was prepared by Technical Committee ISO/TC 47, *Chemistry*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Water for analytical laboratory use — Specification and test methods

1 Scope and field of application

This International Standard specifies the requirements and corresponding test methods for three grades of water for laboratory use for the analysis of inorganic chemicals.

It is not applicable to water for organic trace analysis, to water for the analysis of surface active agents, or to water for biological or medical analysis.

NOTE — For some purposes (for example for certain analytical methods or for tests in which the water is required to be sterile or pyrogen-free or of specified surface tension), additional specific tests and further purification or other treatment may be necessary.

2 Description

The material shall be a clear, colourless liquid as assessed by visual inspection.

3 Classification

This International Standard covers three grades of water as follows :

Grade 1

Essentially free from dissolved or colloidal ionic and organic contaminants and suitable for the most stringent analytical requirements including those of high-performance liquid chromatography; should be produced by further treatment of grade 2 water (for example reverse osmosis or deionization followed by filtration through a membrane filter of pore size

0,2 µm to remove particulate matter or redistillation from a fused silica apparatus).

Grade 2

Very low in inorganic, organic or colloidal contaminants and suitable for sensitive analytical purposes, including atomic absorption spectrometry (AAS) and the determination of constituents in trace quantities; should be produced, for example, by multiple distillation, or by deionization or reverse osmosis followed by distillation.

Grade 3

Suitable for most laboratory wet chemistry work and preparation of reagents solutions; should be produced, for example, by single distillation, by deionization, or by reverse osmosis. Unless otherwise specified, it should be used for ordinary analytical work.

NOTE — It is assumed that the initial feed stock water is potable and reasonably pure. If it is heavily contaminated in any respect, some pretreatment may be necessary.

4 Requirements

The material shall comply with the appropriate requirements of the table. Testing for compliance shall be carried out by means of the methods specified in clause 7.