

Water quality - Determination of chromium(VI) - Method using flow analysis (FIA and CFA) and spectrometric detection (ISO 23913:2006)

Water quality - Determination of chromium(VI) - Method using flow analysis (FIA and CFA) and spectrometric detection (ISO 23913:2006)

Wasserbeschaffenheit - Bestimmung von Chrom(VI) - Verfahren mittels Fließanalytik (FIA und CFA) und spektrometrischer Detektion (ISO 23913:2006)

Qualité de l'eau - Dosage du chrome(VI) - Méthode par analyse en flux (FIA et CFA) et détection spectrométrique (ISO 23913:2006)

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**Ta slovenski standard je istoveten z: EN ISO 23913:2009**

**ICS:**

13.060.50 Ú!^ã\ æã[ å^Á æ{ ã}^ Examination of water for chemical substances  
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**SIST EN ISO 23913:2009**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN ISO 23913**

May 2009

ICS 13.060.50

English Version

**Water quality - Determination of chromium(VI) - Method using  
flow analysis (FIA and CFA) and spectrometric detection (ISO  
23913:2006)**

Qualité de l'eau - Dosage du chrome(VI) - Méthode par  
analyse en flux (FIA et CFA) et détection spectrométrique  
(ISO 23913:2006)

Wasserbeschaffenheit - Bestimmung von Chrom(VI) -  
Verfahren mittels Fließanalytik (FIA und CFA) und  
spektrometrischer Detektion (ISO 23913:2006)

This European Standard was approved by CEN on 14 May 2009.

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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 Management Centre has the same status as the official versions.

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## Foreword

The text of ISO 23913:2006 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 23913:2009 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of an identical text or by endorsement, at the latest by November 2009, and conflicting national standards shall be withdrawn at the latest by November 2009.

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# INTERNATIONAL STANDARD

**ISO**  
**23913**

First edition  
2006-05-15

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## Water quality — Determination of chromium(VI) — Method using flow analysis (FIA and CFA) and spectrometric detection

*Qualité de l'eau — Dosage du chrome(VI) — Méthode par analyse en  
flux (FIA et CFA) et détection spectrométrique*

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## ISO 23913:2006(E)

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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. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 23913 was prepared by Technical Committee ISO/TC 147, *Water quality*, Subcommittee SC 2, *Physical, chemical and biochemical methods*.

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## Introduction

Methods using flow analysis automatic wet chemical procedures are particularly suitable for the processing of many analytes in water, in large sample series at a high analysis frequency.

Analysis can be performed by flow injection analysis (FIA) [1], [2] and continuous flow analysis (CFA). Both methods share the feature of an automatic dosage of the sample into a flow system (manifold) where the analyte in the sample reacts with the reagent solutions on its way through the manifold. The sample preparation may be integrated in the manifold. The reaction product is measured in a flow detector (e.g. flow photometer).

It should be investigated whether and to what extent particular problems will require the specification of additional marginal conditions.

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