

This is a preview of "ISO 12010:2012". [Click here to purchase the full version from the ANSI store.](#)

First edition
2012-03-15

Water quality — Determination of short-chain polychlorinated alkanes (SCCPs) in water — Method using gas chromatography-mass spectrometry (GC-MS) and negative-ion chemical ionization (NCI)

Qualité de l'eau — Détermination des alcanes polychlorés à chaîne courte (SCCP) dans l'eau — Méthode par chromatographie gazeuse-spectrométrie de masse (CG-SM) avec ionisation chimique négative (ICN)



Reference number
ISO 12010:2012(E)

© ISO 2012

This is a preview of "ISO 12010:2012". [Click here to purchase the full version from the ANSI store.](#)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a preview of "ISO 12010:2012". [Click here to purchase the full version from the ANSI store.](#)

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Principle	1
4 Interferences	2
5 Reagents and standards	2
6 Apparatus	6
7 Sampling and sample pretreatment	7
8 Procedure	7
8.1 Extraction with liquid-liquid extraction method	7
8.2 Extraction of samples with higher content of suspended matter	7
8.3 Extract clean-up	8
8.4 Measurement and integration of the chromatogram	9
8.5 Calibration	9
9 Expression of results	12
10 Test report	12
Annex A (informative) Additional quality control check solutions	13
Annex B (informative) Explanation of the calibration of the sum of SCCPs with multiple linear regression	14
Annex C (informative) Typical GC-MS conditions	19
Annex D (informative) Typical chromatograms of standard solutions 1 µg/ml	22
Annex E (informative) Presentation of goodness of fit	23
Annex F (informative) Example for recoveries of quality assurance solutions	24
Annex G (informative) Chromatogram of a real water sample with a sum of SCCPs concentration of 2,59 µg/l	25
Annex H (informative) Precision data	27
Bibliography	28

This is a preview of "ISO 12010:2012". [Click here to purchase the full version from the ANSI store.](#)

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 12010 was prepared by Technical Committee ISO/TC 147, *Water quality*, Subcommittee SC 2, *Physical, chemical and biochemical methods*.

This is a preview of "ISO 12010:2012". [Click here to purchase the full version from the ANSI store.](#)

Introduction

The user should be aware that particular problems might require the specifications of additional marginal conditions.