
**Workplace atmospheres — Determination
of inorganic acids by ion
chromatography —**

**Part 1:
Non-volatile acids (sulfuric acid and
phosphoric acid)**

*Air des lieux de travail — Détermination des acides inorganiques par
chromatographie ionique —*

Partie 1: Acides non volatils (acide sulfurique et acide phosphorique)



Reference number
ISO 21438-1:2007(E)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2007

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

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	2
3.1 General definitions	2
3.2 Particle size fraction definitions.....	3
3.3 Sampling definitions.....	3
3.4 Analytical definitions.....	4
3.5 Statistical terms	5
4 Principle.....	6
5 Requirement	7
6 Reagents.....	7
7 Apparatus	9
7.1 Sampling equipment.....	9
7.2 Laboratory apparatus	11
8 Occupational exposure assessment	12
8.1 General.....	12
8.2 Personal sampling	12
8.3 Static sampling	12
8.4 Selection of measurement conditions and measurement pattern	13
9 Sampling.....	14
9.1 Preliminary considerations.....	14
9.2 Preparation for sampling	16
9.3 Sampling position.....	16
9.4 Collection of samples.....	17
9.5 Transportation.....	17
10 Analysis	18
10.1 Preparation of test and calibration solutions	18
10.2 Instrumental analysis	19
10.3 Estimation of detection and quantification limits	20
10.4 Quality control.....	21
10.5 Measurement uncertainty	21
11 Expression of results	22
12 Method performance	22
12.1 Sample collection and stability	22
12.2 Quantification limits	22
12.3 Upper limits of the analytical range.....	22
12.4 Bias and precision	23
12.5 Uncertainty of sampling and analysis method	23
12.6 Interferences	23
13 Test report	24
13.1 Test record	24
13.2 Laboratory report.....	25
Annex A (informative) Temperature and pressure correction	26
Bibliography	28