

INTERNATIONAL
STANDARD

ISO
20581

First edition
2016-11-01

**Workplace air — General
requirements for the performance of
procedures for the measurement of
chemical agents**

*Air des lieux de travail — Exigences générales concernant les
performances des procédures de mesure des agents chimiques*



Reference number
ISO 20581:2016(E)

© ISO 2016



COPYRIGHT PROTECTED DOCUMENT

© ISO 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Classification	2
4.1 General	2
4.2 Screening measurements of time-weighted average concentration	2
4.3 Screening measurements of variation of concentration in time and/or space	2
4.4 Measurements for comparison with occupational exposure limit values	2
4.5 Periodic measurements	2
5 Performance requirements	3
5.1 General	3
5.2 Screening measurements of time-weighted average concentration	3
5.3 Screening measurements of variation of concentration in time and/or space	3
5.4 Measurements for comparison with limit values and periodic measurements	3
5.4.1 Unambiguity	3
5.4.2 Selectivity	3
5.4.3 Averaging time	4
5.4.4 Measuring range	4
5.4.5 Expanded uncertainty	4
5.4.6 Chemical agents where compliant methods are not available	4
5.5 Composite procedures	4
5.6 Transport, handling and/or storage	5
5.7 Environmental conditions	5
5.8 Description of measuring procedure	5
5.9 Dimension of result	5
5.10 Additional requirements	5
6 Test method	6
7 Validation report	7
Annex A (informative) Structure of a method description	8
Annex B (informative) Calculation of uncertainty of measurement	9
Bibliography	16