



**International
Standard**

ISO 8573-5

**Compressed air — Contaminant
measurement —**

**Part 5:
Oil vapour content**

Air comprimé — Mesurage des polluants —

Partie 5: Teneur en vapeurs d'huile

Second edition

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO/PRF 8573-5

<https://standards.iteh.ai/catalog/standards/iso/aabd0810-09d4-4118-9a36-8766eb4a21a6/iso-prf-8573-5>

PROOF/ÉPREUVE

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

ISO/PRF 8573-5

<https://standards.itih.ai/catalog/standards/iso/aabd0810-09d4-4118-9a36-8766eb4a21a6/iso-prf-8573-5>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

PROOF/ÉPREUVE

© ISO 2025 – All rights reserved

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Units	1
5 Reference conditions	2
6 Test methods	2
6.1 Indicative methods	2
6.2 Quantitative analysis using gas chromatography	2
7 Materials for sampling	2
7.1 Sampling system	2
7.2 Sorbent tube	4
7.2.1 Principle	4
7.2.2 Laboratory blank	4
7.2.3 Field blank	4
8 Materials and apparatus for gas chromatographic analysis	5
8.1 Gas chromatograph	5
8.2 Thermal desorption apparatus	5
8.3 Calibration standards	5
8.3.1 General	5
8.3.2 Dilution solvent	5
8.3.3 Calibration substance	5
9 Sampling	5
9.1 General	5
9.2 Sampling volume	6
9.3 Procedure	6
9.3.1 General	6
9.3.2 Storage of loaded samples and field blanks	6
9.3.3 Uncertainty and repeatability	7
10 Sample analysis	7
11 Calculation of test results	7
12 Test report	7
13 Quality control	8
Annex A (informative) Example test report of an oil vapour content measurement in compressed air	9
Annex B (informative) Indicative test methods	11
Bibliography	12

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 118, *Compressors and pneumatic tools*, machines and equipment, Subcommittee SC4, *Compressed air treatment technology*.

This second edition cancels and replaces the first edition (ISO 8573-5:2001), which has been technically revised.

The main changes are as follows:

- a thermal desorption technique has been introduced to prevent the use of environmentally hazardous solvents;
- a re-useable standardized adsorption agent has been introduced.

A list of all parts of the ISO 8573 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.