

AS 2986.1—2003
ISO 16200-1:2001

AS 2986.1

Australian Standard™

**Workplace air quality—Sampling and
analysis of volatile organic compounds
by solvent desorption/gas
chromatography**

Part 1: Pumped sampling method

This Australian Standard was prepared by Committee CH-031, Methods for the Examination of Workplace Atmospheres. It was approved on behalf of the Council of Standards Australia on 3 November 2003 and published on 24 December 2003.

The following are represented on Committee CH-031:

Australian Aluminium Council
Australian Chamber of Commerce and Industry
Australian Institute of Occupational Hygienists
Australian Mines and Metals Association
Bureau of Steel Manufacturers of Australia
Clean Air Society of Australia & New Zealand
Coal Services
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**Workplace air quality—Sampling and
analysis of volatile organic compounds
by solvent desorption/gas
chromatography**

Part 1: Pumped sampling method

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PREFACE

This Standard was prepared by the Standards Australia Committee CH-031, Methods for Examination of Workplace Atmospheres to supersede, in part, AS 2986—1987, *Workplace atmospheres—Organic vapours—Sampling by solid absorption techniques*.

This Standard is identical with and has been reproduced from ISO 16200-1:2001, *Workplace air quality—Sampling and analysis of volatile organic compounds by solvent desorption/gas chromatography*, Part 1: *Pumped sampling method*.

The objective of this Standard is to provide a method for sampling, using a personal pump and analysis of organic compounds by gas chromatography in workplace atmospheres.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text, ‘this part of ISO 16200’ should read ‘this Australian Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

None of the documents referenced in this Standard have been adopted as Australian Standards.

This Standard is Part 1 of the following series:

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|--------|--|
| 2986 | Workplace air quality—Sampling and analysis of volatile organic compounds by solvent desorption/gas chromatography |
| 2986.1 | Part 1: Pumped sampling method |
| 2986.2 | Part 2: Diffusive sampling method |

The Committee acknowledges advice from NATA (National Association of Testing Authorities) that, in Australia, some clauses in this Standard, which are given as advisory, are mandatory requirements for laboratories seeking NATA accreditation. Specifically:

- (i) Clause 4.4: Traceability of calibration blend solutions to national or international Standards is a NATA requirement.
- (ii) Clause 6: Preparation of field blanks is a NATA requirement.
- (iii) Clause 10: Estimations of uncertainty are required by NATA to be prepared in accordance with the principles of ISO GUM.*

The term ‘informative’ has been used in this Standard to define the application of the annex to which it applies. An ‘informative’ annex is only for information and guidance.

* ‘Guide to the Expression of Uncertainty in Measurement’ issued by BIPM, IEC, IFCC, ISO, IUPAC, IUPAP and OIML, Geneva, 1993.

CONTENTS

1	Scope	1
2	Normative references	1
3	Principle.....	2
4	Reagents and materials	2
5	Apparatus	4
6	Sampling.....	6
7	Procedure	7
8	Calculations.....	8
9	Interferences	9
10	Precision and bias	9
11	Storage and transport	9
12	Test report	10
13	Quality control.....	10
Annex A (informative) Description of sorbent types		23
Annex B (informative) Equivalence of gas chromatographic stationary phases		24
Annex C (informative) Determination of breakthrough volume		25
Bibliography		27

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