

ISO 16017-1:2000, Indoor, ambient and workplace air -- Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography -- Part 1: Pumped sampling



This part of ISO 16017 gives general guidance for the sampling and analysis of volatile organic compounds (VOCs) in air. It is applicable to ambient, indoor and workplace atmospheres and the assessment of emissions from materials in small- or full-scale test chambers. This part of ISO 16017 is appropriate for a wide range of VOCs, including hydrocarbons, halogenated hydrocarbons, esters, glycol ethers, ketones and alcohols. A number of sorbents¹⁾ are recommended for the sampling of these VOCs, each sorbent having a different range of applicability. Very polar compounds will generally require derivatization, very low boiling compounds will only be partially retained by the sorbents, depending on ambient temperature, and can only be estimated qualitatively. Semi-volatile compounds will be fully retained by the sorbents, but may only be partially recovered. Compounds for which this part of ISO 16017 has been tested are given in tables. This part of ISO 16017 may be applicable to compounds not listed, but in these cases it is advisable to use a back-up tube containing the same or a stronger sorbent. This part of ISO 16017 is applicable to the measurement of airborne vapours of VOCs in a concentration range of approximately 0,5 µg/m³ to 100 mg/m³ individual compound. The upper limit of the useful range is set by the sorptive capacity of the sorbent used and by the linear dynamic range of the gas chromatograph column and detector or by the sample-splitting capability of the analytical instrumentation used. The sorptive capacity is measured as a breakthrough volume of air, which determines the maximum air volume that shall not be exceeded when sampling. The lower limit of the useful range depends on the noise level of the detector and on blank levels of analyte and/or interfering artefacts on the sorbent tubes. Artefacts are typically

sub-nanogram for well-conditioned Tenax GR and carbonaceous sorbents such as Carbo-pack/Carbotrap type materials, carbonized molecular sieves and molecular sieves such as Spherocarb, or pure charcoal; at low nanogram levels for Tenax TA and at 5 ng to 50 ng levels for other porous polymers such as Chromosorbs and Porapak. Sensitivity is typically limited to 0,5 µg/m³ for 10-litre air samples with this latter group of sorbents because of their inherent high background. The procedure specified in this part of ISO 16017 is applicable to low flowrate personal sampling pumps and gives a time-weighted average result. It is not applicable to the measurement of instantaneous or short-term fluctuations in concentration.1) The sorbents listed in annex C and elsewhere in this International Standard are those known to perform as specified under this part of ISO 16017. Each sorbent or product that is identified by a trademarked name is unique and has a sole manufacturer; however, they are widely available from many different suppliers. This information is given for the convenience of users of this part of ISO 16017 and does not constitute an endorsement by ISO of the product named. Equivalent products may be used if they can be shown to lead to the same results.

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Indoor, ambient and workplace air - Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography - Part 1: Pumped sampling (ISO 16017-1:2000) This part of ISO 16017 is appropriate for a wide range of VOCs, including hydrocarbons, halogenated hydrocarbons **NBN EN ISO 16017-1 NBN**

Thermal desorption tubes and 6-l specially prepared stainless steel canisters The sampling time of the environmental air samples was set up on 6h close analysis by GC for measuring VOCs in ambient air was documented by the .. desorption/capillary gas chromatography -- Part 1: Pumped sampling. **ISO 16017-1:2000** - Air quality -- Exchange of data -- Part 1: General data format. 90.60 ISO/TC 146/SC 4 ISO 7168-2:1999 Indoor, ambient and workplace air -- Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography

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tube/thermal desorption/capillary gas **ISO 16017-2:2003 - Indoor, ambient and workplace air -- Sampling** - Buy ISO 16017-1:2000, Indoor, ambient and workplace air -- Sampling and of volatile organic compounds by sorbent tube/thermal desorption/capillary gas desorption/capillary gas chromatography -- Part 1: Pumped sampling This part of ISO 16017 gives general guidance for the sampling and analysis of **ISO 16017-1:2000, Indoor, Ambient And Workplace Air -- Sampling** Indoor, ambient and workplace air -- Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography -- Part 1: Pumped sampling. standard by International Organization for Standardization, 11/01/2000. View all product details. Most Recent. Track It. **ISO 16000-6:2011(en), Indoor air ? Part 6: Determination of volatile** 10 Controlling GC carrier flow through thermal desorb- .. Pumped sorbent tubes for the determination Sampling and analysis of volatile organic ISO 16017-1:2000 Workplace air quality Determination of formaldehyde -- Diffusive Determination of NO2 and SO2 by ion chromatography in ambient air by use of. **SFS-EN 16846-1:2017:en - SFS Verkkokauppa - Suomen** Indoor air -- Part 1: General aspects of sampling strategy Indoor air -- Part 5: Sampling strategy for volatile organic compounds (VOCs) air by active sampling on Tenax TA sorbent, thermal desorption and gas chromatography using MS or MS-FID . Indoor, ambient and workplace air -- Sampling and analysis of volatile **Comparison between Thermal Desorption Tubes and Stainless** The sampling time of the environmental air samples was set up on 6h close to the VOCs can be improved due to new developments in sorbent analysis by GC for measuring VOCs in ambient air was documented by .. tube/thermal desorption/capillary gas chromatography -- Part 1: Pumped sampling. **ISO 16017-1:2000 Indoor, ambient and workplace air -- Sampling** ISO 16017-1:2000 (2000), Indoor, Ambient and Workplace Air Sampling and Analysis of Volatile Organic Compounds by Sorbent Tube/Thermal Desorption/Capillary Gas Chromatography, Part 1: Pumped Sampling, International Organization for Standardization, Geneva. O'Reilly, J.T., Hagan, P., Gots, R., and Hedge, **ISO - ISO Standards - ICS 13.040.01: Air quality in general** ISO 16000-1:2004 Indoor air Part 1: General aspects of sampling strategy. Indoor air Part 4: Determination of formaldehyde -- Diffusive sampling method. ISO 16017-1:2000 Indoor, ambient and workplace air Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas **ISO 16017-1:2000, Indoor, Ambient And Workplace Air -- Sampling** Workplace Air -- Sampling And Analysis Of. Volatile Organic Compounds By Sorbent. Tube/thermal Desorption/capillary Gas. Chromatography -- Part 1: Pumped