

DIN ISO 16000-6:2012-11 (E)

Indoor air - Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA® sorbent, thermal desorption and gas chromatography using MS or MS-FID (ISO 16000-6:2011)

Contents

	Page
National foreword	3
National Annex NA (informative) Bibliography	5
Introduction	9
1 Scope	10
2 Normative references	10
3 Terms and definitions	10
4 Principle	11
5 Reagents and materials	11
6 Apparatus	13
7 Conditioning and storage of sorbent tubes	15
7.1 Conditioning	15
7.2 Storage of conditioned sorbent tubes before sampling	15
8 Sampling	15
8.1 Indoor air sampling	15
8.2 Test chamber air sampling	15
8.3 Sampling volumes	16
8.4 Storage of loaded samples	16
8.5 Field blanks	16
9 Analysis	16
9.1 General	16
9.2 Thermal desorption	17
9.3 Temperature programme	17
9.4 Analysis of the samples	17
10 Identification of single VOCs	17
11 Concentration of analytes in the sampled air	18
11.1 General	18
11.2 Volatile organic compounds	18
11.3 Total volatile organic compounds	19
11.4 VVOC and SVOC compounds observed outside the TVOC range	19
12 Performance characteristics	20
13 Test report	21
14 Quality control	21

Annex A (informative) Examples of compounds detected in indoor air and from building products in test chambers	22
Annex B (informative) Safe sampling volumes for selected organic vapours sampled on Tenax TA®	28
Annex C (informative) Storage recovery of solvents on Tenax TA® sorbent tubes	30
Annex D (informative) Determination of very volatile and semi-volatile organic compounds in conjunction with volatile organic compounds	32
Bibliography	37