

DIN ISO 16000-6:2022-03 (E)

Indoor air - Part 6: Determination of organic compounds (VVOC, VOC, SVOC) in indoor and test chamber air by active sampling on sorbent tubes, thermal desorption and gas chromatography using MS or MS FID (ISO 16000-6:2021)

Contents	Page
National foreword	3
National Annex NA (informative) Bibliography	6
Foreword	7
Introduction	8
1 Scope	9
2 Normative references	9
3 Terms and definitions	9
4 Abbreviated terms	11
5 Principle	11
6 Reagents and materials	11
7 Apparatus	13
8 Conditioning and storage of sorbent tubes	17
8.1 Conditioning	17
8.2 Storage of conditioned sorbent tubes before sampling	18
9 Sampling	18
9.1 Air sampling	18
9.2 Sampling volumes	18
9.3 Storage of loaded samples	19
9.4 Field blanks	19
10 Analysis	19
10.1 Determination of VOC, VVOC and SVOC	19
10.1.1 Analytical System	19
10.1.2 Identification of target compounds	21
10.1.3 Quantification of target compounds and compounds according to task list	22
10.1.4 Determining the lower limit of quantification	23
10.2 Identified non-target compounds and unidentified compounds	24
11 Concentration of analytes in the sampled air	24
12 Performance characteristics	25
13 Test report	26
14 Quality control	27
Annex A (informative) Total volatile organic compounds (TVOC) and total semi-volatile organic compounds (TSVOC)	28
Annex B (informative) Examples of compounds detected in indoor air and from building products in test chambers	29
Annex C (informative) Description of sorbents	34
Annex D (informative) Guide on sorbent usage	35
Annex E (informative) Safe sampling volumes for selected organic vapours	37
Annex F (informative) Storage recovery of solvents on sorbent tubes	40
Bibliography	42