

ISO 16017-1:2000-11 (E)

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

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	2
3 Terms and definitions	2
4 Principle	3
5 Reagents and materials	3
6 Apparatus	5
7 Sample tube conditioning	6
8 Calibration of pump	7
9 Sampling	7
10 Procedure	8
10.1 Safety precautions	8
10.2 Desorption and analysis	8
10.3 Calibration	9
10.4 Determination of sample concentration	10
10.5 Determination of desorption efficiency	10
11 Calculations	10
11.1 Mass concentration of analyte	10
11.2 Volume concentration of analyte	11
12 Interferences	11
13 Performance characteristics	11
14 Test report	12
15 Quality control	12
Annex A (normative) Determination of breakthrough volumes from gas standards	21
Annex B (normative) Determination of breakthrough volume from the extrapolated retention volume	22
Annex C (informative) Description of sorbent types	23
Annex D (informative) Guidance on sorbent selection	24
Annex E (informative) Guidance on sorbent use	25
Annex F (informative) Summary of data on overall uncertainty, precision, bias and storage	26
Bibliography	28