

ISO 16107:2007-10 (E)

Workplace atmospheres - Protocol for evaluating the performance of diffusive samplers

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols and abbreviated terms	2
5	Summary of test protocol	3
5.1	Factors affecting performance	3
5.2	"Accuracy" as providing a single performance value linking to measurement uncertainty	4
5.3	Bias, intersampler variability and the effects of environmental uncertainty	4
5.4	Reverse diffusion	5
5.5	Capacity -- Control of effects from interfering compounds	6
5.6	Capacity overload detection	6
5.7	Desorption efficiency	7
5.8	Atmospheric pressure	7
5.9	Wind direction	7
5.10	Simplifications	7
6	Apparatus	7
6.1	Exposure chamber specifications	7
6.2	Controlled environmental conditions	8
6.3	Inter-run variability	8
7	Reagents and materials	9
8	Procedure	9
9	Sampler performance classification	9
10	Accuracy	10
10.1	General	10
10.2	Accuracy range confidence limit	10
10.3	Expanded uncertainty	11
11	Test report	11
Annex A (informative) Worked example -- Program for diffusive sampler accuracy range calculation		13
Annex B (informative) Calculation of variances		15
Bibliography		16