

ISO 16000-3:2001-09 (E)

Indoor air - Part 3: Determination of formaldehyhde and other carbonyl compounds; Active sampling method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Principle	2
4	Limitations and interferences	3
4.1	General	3
4.2	Ozone interference	4
5	Safety measures	5
6	Apparatus	5
7	Reagents	7
8	Preparation of reagents and cartridges	7
8.1	Purification of 2,4-dinitrophenylhydrazine	7
8.2	Preparation of DNPH-formaldehyde derivative	8
8.3	Preparation of DNPH-formaldehyde standards	8
8.4	Preparation of DNPH-coated silica gel cartridges	9
9	Procedure	10
9.1	Sample collection	10
9.2	Process blanks	11
9.3	Sample analysis	12
10	Calculations	19
11	Performance criteria and quality assurance	20
11.1	General	20
11.2	Standard Operating Procedures (SOPs)	20
11.3	HPLC system performance	21
11.4	Sample loss	21
12	Precision and uncertainty	21
Annex A (informative) Precision and uncertainty		22
Annex B (informative) Melting points of DNPH-carbonyl derivatives		24
Bibliography		25