

# ISO 17736:2010-12 (E)

## Workplace air quality - Determination of isocyanate in air using a double-filter sampling device and analysis by high pressure liquid chromatography

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Principle .....	1
4	Reagents and materials .....	2
5	Apparatus .....	3
6	Air sampling .....	4
6.1	Calibration of sampling system .....	4
6.2	Preparation of sampling equipment .....	4
6.3	Preparation of MAMA-impregnated filter .....	4
6.4	Collection of samples .....	4
6.5	Blanks .....	5
7	Procedure .....	5
7.1	Safety precautions .....	5
7.2	Calibration standard .....	5
8	Sample processing .....	6
8.1	Vapour analysis .....	6
8.2	Aerosol analysis .....	6
9	HPLC conditions .....	7
9.1	General .....	7
9.2	HPLC conditions -- vapour isocyanates .....	7
9.3	HPLC conditions -- aerosol isocyanates .....	7
10	Analysis .....	8
10.1	Calibration curve .....	8
10.2	Quality control .....	8
10.3	Sample quantification .....	8
11	Interference .....	9
12	Determination of performance characteristics .....	10
12.1	Introduction .....	10
12.2	Relevant uncertainty contributions and criteria .....	10
12.3	Assessment of performance characteristics, following the detailed approach in ISO/IEC Guide 98-3[5] .....	11
Annex A (informative) Performance characteristics .....		18
Annex B (informative) Sample chromatograms .....		20
Bibliography .....		27