
**Workplace atmospheres —
Determination of total
isocyanate groups in air using
1-(9-anthracenylmethyl)piperazine
(MAP) reagent and liquid
chromatography**

*Air des lieux de travail — Dosage des groupements isocyanates totaux
dans l'air par réaction avec la 1-(9-anthracényleméthyl)pipérazine
(MAP) et par chromatographie en phase liquide*

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Foreword

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This document was prepared by Technical Committee ISO/TC 146, *Air quality*, Subcommittee SC 2, *Workplace atmospheres*.

This second edition cancels and replaces the first edition (ISO 17735:2009), which has been technically revised. The main changes compared to the previous edition are as follows.

- Additional limit of detection information has been provided ([Clause 1](#)).
- The method has been used in high air concentrations successfully with a higher reagent concentration in an impinger ([5.3.1](#)).
- During processing of impinger samples, rinsing the SPE cartridge with 6 ml dichloromethane has been changed to rinsing with two consecutive 3 ml aliquots. This is more effective in removing all of the butyl benzoate impinger solvent ([7.8](#)).
- The liquid chromatographic system has been adapted to use a smaller diameter analytical column ([6.7.3](#)).

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