



ISO 21438-3

**Workplace atmospheres —
Determination of inorganic acids by
ion chromatography —**

**Part 3:
Hydrofluoric acid and particulate
fluorides**

*Air des lieux de travail — Détermination des acides inorganiques
par chromatographie ionique —*

Partie 3: Acide fluorhydrique et fluorures particulaires

**Second edition
2026-01**

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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 21438-3:2010), which has been technically revised.

The main changes are as follows:

- the normative references in [Clause 2](#) has been updated;
- terms that are also defined in ISO 18158 have been removed from [Clause 3](#);
- the reagents for electronically suppressed ion chromatography have been removed from [Clause 6](#);
- [Clause 8](#) has been reduced by referencing relevant standards;
- [Figure 1](#) has been added.

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The health of workers in many industries is at risk through exposure by inhalation of hydrofluoric acid and particulate fluorides. Industrial hygienists and other public health professionals need to determine the effectiveness of measures taken to control workers' exposure, and this is generally achieved by making workplace air measurements. This document provides a method for making valid exposure measurements for hydrofluoric acid and particulate fluorides in use in industry. It is intended for agencies concerned with health and safety at work; industrial hygienists and other public health professionals; analytical laboratories; industrial users of hydrofluoric acid and particulate fluorides, and their workers.

The execution of the provisions and the interpretation of the results obtained with the use of this document is entrusted to appropriately qualified and experienced people.