



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 12919:2000**

ICS 13.040.30  
23.080

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**WORKPLACE ATMOSPHERES - PUMPS FOR  
THE SAMPLING OF CHEMICAL AGENTS WITH  
A VOLUME FLOW RATE OF OVER 5 L/MIN -  
REQUIREMENTS AND TEST METHODS**

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on:  
March 3, 2000*

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EUROPEAN STANDARD

**EN 12919**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1999

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ICS 13.040.30; 23.080

English version

## Workplace atmospheres - Pumps for the sampling of chemical agents with a volume flow rate of over 5 l/min - Requirements and test methods

Atmosphères des lieux de travail - Pompes pour l'échantillonnage individuel des agents chimiques d'un débit volumique supérieur 5 l/min - Exigences et méthodes d'essai

Arbeitsplatzatmosphäre - Pumpen für die Probenahme von chemischen Stoffen mit einem Volumendurchfluß über 5 l/min - Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 24 July 1999.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
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## **Foreword**

This European Standard has been prepared by Technical Committee CEN/TC 137 "Assessment of workplace exposure", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2000, and conflicting national standards shall be withdrawn at the latest by February 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## **Introduction**

Many different methods are used to determine the concentration of chemical agents in the workplace atmosphere. In some of these methods the air, charged with the chemical agent, is aspirated by means of a pump and the chemical agents are collected by a sample medium (e.g. a filter). The sample is then transported to the laboratory and analyzed.

Such pumps require to meet special requirements. The flow rate in particular requires to remain constant during sampling, as its value is used in the calculation of the concentration of the agent together with the duration of sampling and the analyzed mass of the agent.

Requirements and test procedures for pumps which are attached to a person during the period of sampling and which have a volume flow rate in the region of 5 ml/min to 5 l/min are laid down in EN 1232. This standard deals with pumps with a volume flow rate above 5 l/min.

Pumps with a volume flow rate above 5 l/min are mainly used in a stationary position to evaluate the effectiveness of engineering controls or for trouble shooting. They can also be used for personal sampling.

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