

Implementation of ISO 5725-1:1994

# Accuracy (trueness and precision) of measurement methods and results —

**Part 1: General principles and definitions**

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- British Gas plc
- Chemical Industries Association
- Consumers' Association
- Department of Trade and Industry (Laboratory of the Government Chemist)
- Institute of Quality Assurance
- Ministry of Agriculture, Fisheries and Food
- Ministry of Defence
- Royal Society of Chemistry
- University of London

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## National foreword

This British Standard reproduces verbatim ISO 5725-1:1994, incorporating Technical Corrigendum 1:1998 and implements it as the UK national standard.

Parts 1 to 6 of BS ISO 5725 together supersede BS 5497-1:1987 which will be withdrawn upon the publication of BS ISO 5725-5.

This British Standard is published under the direction of the Management Systems Sector Board whose Technical Committee QMS/16 has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international committee any enquiries on interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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### Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO title page, pages ii to iv, pages 1 to 17 and a back cover.

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# INTERNATIONAL STANDARD

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**5725-1**

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## **Accuracy (trueness and precision) of measurement methods and results —**

### **Part 1:** General principles and definitions

*Exactitude (justesse et fidélité) des résultats et méthodes de mesure —  
Partie 1: Principes généraux et définitions*



Reference number  
ISO 5725-1:1994(E)

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 5725-1 was prepared by Technical Committee ISO/TC 69, *Applications of statistical methods*, Subcommittee SC 6, *Measurement methods and results*.

ISO 5725 consists of the following parts, under the general title *Accuracy (trueness and precision) of measurement methods and results*:

- *Part 1: General principles and definitions;*
- *Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method;*
- *Part 3: Intermediate measures of the precision of a standard measurement method;*
- *Part 4: Basic methods for the determination of the trueness of a standard measurement method;*
- *Part 5: Alternative methods for the determination of the precision of a standard measurement method;*
- *Part 6: Use in practice of accuracy values.*

Parts 1 to 6 of ISO 5725 together cancel and replace ISO 5725:1986, which has been extended to cover trueness (in addition to precision) and intermediate precision conditions (in addition to repeatability and reproducibility conditions). Annex A and Annex B form an integral part of this part of ISO 5725. Annex C is for information only.

