

Characterization of air quality —

Part 4: Stationary source emissions —

Section 4.1 Method for the determination of the mass concentration of sulphur dioxide: Hydrogen peroxide/barium perchlorate/Thorin method

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Environmental and Pollution Standards Policy Committee (EPC/-) to Technical Committee EPC/35, upon which the following bodies were represented:

- Association of Consulting Scientists
- British Coal Corporation
- British Gas plc
- British Steel plc
- Department of Health
- Department of the Environment (Her Majesty's Inspectorate of Pollution)
- Department of Trade and Industry (Laboratory of the Government Chemist)
- Department of Trade and Industry (Warren Spring Laboratory)
- Electricity Supply Industry in England and Wales
- GAMBICA (BEAMA Ltd.)
- Health and Safety Executive
- Institute of Occupational Hygienists
- Institute of Petroleum
- Institution of Environmental Health Officers
- Institution of Gas Engineers
- Lead Development Association
- National Society for Clean Air
- Society of Chemical Industry

The following bodies were also represented in the drafting of the standard, through sub-committees and panels:

- Asbestos Information Centre Ltd.
- Asbestosis Research Council
- Chemical Industries Association
- Council for Environmental Conservation
- Engineering Equipment and Materials Users' Association
- Fibre Cement Manufacturers' Association Limited
- Institute of Occupational Medicine
- London Regional Transport
- Royal Society of Chemistry

This British Standard, having been prepared under the direction of the Environment and Pollution Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 28 February 1990

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The following BSI references relate to the work on this standard:
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National foreword

This Section of BS 6069 has been prepared under the direction of the Environment and Pollution Standards Policy Committee and is identical with ISO 7934:1989 “*Stationary source emissions — Determination of the mass concentration of sulfur dioxide — Hydrogen peroxide/barium perchlorate/Thorin method*”. The international standard was prepared by Technical Committee 146, Air quality, of the International Organization for Standardization (ISO) with the active participation and approval of the UK.

BS 6069 is being published in a series of Parts and Sections that will generally correspond to particular international standards arising from the UK participation in the work of ISO/TC 146. This Section of BS 6069 is one of several relating to stationary source emissions that are being published as Sections of Part 4. Methods concerning workplace atmospheres are being published as Sections of Part 3 of BS 6069. Topics relating to other aspects of air quality characterization will be published as further Parts or Sections of BS 6069.

The following Parts of BS 6069 have already been published:

- *Part 1: Units of measurement;*
- *Part 2: Glossary.*

Methods for the determination of particular constituents of ambient air are being published as Parts of BS 1747 “*Methods for the measurement of air pollution*”.

Cross-reference

International standard	Corresponding British Standard
ISO 3696:1987	BS 3978:1978 Specification for water for laboratory use (Identical)

Reference to ISO 6879 is only made in the footnote to 8.2.1 concerning the definition for “lower detection limit”. The definition of this term in ISO 6879 is as follows.

Lower detection limit: Smallest value of the air quality characteristic which, with 95 %¹⁾ probability, can be distinguished from a zero sample.

NOTE A zero sample has 5 %¹⁾ probability of causing a reading above the lower detection limit. When the value of air quality characteristic is at the lower detection limit, 50 % of the results will be measured as zero under the assumption that the distribution is symmetric.

Additional information. Further information on the sampling of flue gases (stationary source emissions) may be found in BS 1756-1:1971. A British Standard based on an ISO standard is under development on this subject.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

¹⁾ By convention.