

Methods for

Preparation of calibration gas mixtures —

Part 7: Permeation method

[ISO title: Gas analysis — Preparation of calibration gas mixtures — Permeation method]

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Cooperating organizations

The Environment and Pollution Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following:

- Association of County Councils
- British Gas Corporation*
- British Industrial Measuring and Control Apparatus Manufacturers' Association*
- British Railways Board
- British Steel Industry
- Chemical Industries Association
- Chemical Society
- Committee for Environmental Conservation
- Confederation of British Industry
- Consumer Standards Advisory Committee of BSI
- Council of Engineering Institutions
- Department of Energy (Energy Technology)
- Department of Industry (Warren Spring Laboratory)*
- Department of the Environment (Water Engineering Division including Water Data Unit)
- Electricity Supply Industry in England and Wales*
- Engineering Equipment Users' Association
- Greater London Council
- Health and Safety Executive
- Institute of Petroleum*
- Medical Research Council
- Ministry of Agriculture, Fisheries and Food
- National Coal Board*
- National Consumers' Council
- National Water Council
- Scottish Office
- Society of Chemical Industry*
- Trades Union Congress

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

- Cement Makers' Federation
- Department of Energy (Gas Standards)
- Department of Industry
- Institution of Gas Engineers
- Scientific Instrument Manufacturers' Association
- Society of Motor Manufacturers and Traders Limited

This British Standard, having been prepared under the direction of the Environment and Pollution Standards Committee, was published under the authority of the Executive Board and comes into effect on 30 April 1981

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National foreword

BS 4559 was first published in 1970 under the title “*Methods for the preparation of gaseous mixtures*”. The present revision is being issued in Parts to incorporate methods prepared by subcommittee 1, Preparation and definition of gas mixtures for calibration, of Technical Committee 158, Gas analysis, of the International Organization for Standardization (ISO) and to provide for revision where necessary of the methods included in the 1970 edition.

This Part of this British Standard, which has been prepared under the direction of the Environment and Pollution Standards Committee, is identical with ISO 6349:1979 “*Gas analysis — Preparation of calibration gas mixtures — Permeation method*”. A permeation method is described briefly in 4.3.5 of BS 4559:1970 and is superseded by this Part in greater detail.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is especially drawn to the following.

The comma has been used throughout as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Additional information. With reference to the footnote to 3.3.4.2, guidance on sampling may be obtained from BS 5309 “*Methods for sampling chemical products*” Part 2:1976 “*Sampling of gases*” pending the publication of the International Standard, at present in course of preparation.

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.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

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.