

Methods of test for

Phosphoric acid (orthophosphoric acid) for industrial use —

Part 12: Guide to sampling techniques

[ISO title: Phosphoric acid for industrial use — Guide to sampling techniques]

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Cooperating organizations

The Chemicals Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:

- Association of Fatty Acid Distillers
- British Tar Industry Association
- Chemical Industries Association*
- Chemical Society, Analytical Division
- Department of Health and Social Security
- Department of Industry, Chemicals and Textiles Division
- Department of Industry, Laboratory of the Government Chemist*
- Fertiliser Manufacturers' Association Ltd.*
- Hydrocarbon Solvents Association
- Ministry of Agriculture, Fisheries and Food
- Ministry of Defence
- National Sulphuric Acid Association
- Paintmakers' Association of Great Britain Ltd.
- Royal Institute of Public Health and Hygiene
- Soap and Detergent Industry Association
- Standardization of Tar Products Tests Committee

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

- British Pharmacopoeia Commission
- Campden Food Preservation Research Association
- Flour Milling and Baking Research Association
- Institute of Metal Finishing
- Institution of Water Engineers and Scientists
- National Association of Soft Drinks Manufacturers
- Society of Chemical Industry
- Textile Institute
- Coopted member

This British Standard, having been prepared under the direction of the Chemicals Standards Committee, was published under the authority of the Board of BSI on 30 November 1982

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

This British Standard has been prepared under the direction of the Chemical Standards Committee in order to provide methods of test for phosphoric acid.

This Part is identical with ISO 4285 “*Phosphoric acid for industrial use — Guide to sampling techniques*” published in 1977 by the International Organization for Standardization (ISO). For some years the UK has participated in the work of preparing methods of test for phosphoric acid for industrial use, organized by subcommittee 6 (formerly Working Group 7) “*Phosphoric acid and condensed phosphates*” of Technical Committee 47 “*Chemistry*” of ISO. As international agreement is reached on the methods, it is proposed to publish them as Parts of this British Standard.

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 drawn especially to the following.

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

Cross-references. The Technical Committee has reviewed the provisions of ISO 683-XIII:1974 and ISO 3165:1976, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard. However, ISO 683-XIII is related to BS 1449 “*Steel plate, sheet and strip*” — Part 2:1975 “*Stainless and heat resisting steel plate, sheet and strip*” and ISO 3165 is related to BS 5309 “*Methods for sampling chemical products*” — Part 1:1976 “*Introduction and general principles*”.

ISO . . . “*Chemical products — Sampling techniques for mobile liquids and mobile liquids derived from solids*” has not yet been published. Until it is available, guidance can be found in BS 5309 “*Methods of sampling chemical products*” — Part 3 “*Sampling of liquids*”.

The ISO publications relating to phosphoric acid for industrial use, which are listed in the Annex, correspond to Parts of this British Standard as follows.

ISO publication	Part of BS 4258
ISO 848	No equivalent (see ISO 3707)
ISO 849	Part 2 <i>Determination of iron content</i> (Technically equivalent)
ISO 2997	Part 3 <i>Determination of sulphate content</i> (Technically equivalent)
ISO 3359	Part 6 <i>Determination of arsenic content</i> (Identical)
ISO 3360	Part 4 <i>Determination of fluorine content</i> (Technically equivalent)
ISO 3361	Part 5 <i>Determination of silica content</i> (Technically equivalent)
ISO 3706	Part 7 <i>Determination of total phosphorus (V) oxide content: Quinoline phosphomolybdate gravimetric method</i> (Technically equivalent)
ISO 3707	Part 8 <i>Determination of calcium content</i> (flame atomic absorption method) (Identical)
ISO 3708	Part 9 <i>Determination of chloride content</i> (Technically equivalent)
ISO 3709	Part 10 <i>Determination of oxides of nitrogen content</i> (Identical)
ISO 4285	Part 12 <i>Guide to sampling techniques</i> (Identical)