

Methods of test for

Phosphoric acid (orthophosphoric acid) for industrial use —

Part 10: Determination of oxides of nitrogen content

[ISO title: Phosphoric acid for industrial use
(including foodstuffs) — Determination of oxides of nitrogen
content — 3,4-Xylenol spectrophotometric method]

UDC 661.634.2:546.185 – 325:543.42.062:546.17 – 31

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
- Individual expert

This British Standard, having been prepared under the direction of the Chemicals Standards Committee, was published under the authority of the Executive Board on 31 January 1978

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The following BSI references relate to the work on this standard:
Committee reference CIC/25
Draft for comment 75/50855 DC

ISBN 0 580 09948 2

Amendments issued since publication

Amd. No.	Date of issue	Comments

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Foreword

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

For some years the United Kingdom has participated in the work of preparing methods of test applicable to phosphoric acid for industrial use, organized by Subcommittee 6 (formerly Working Group 7), Phosphoric acid and condensed phosphates, of Technical Committee 47, Chemistry, of the International Organization for Standardization (ISO). As international agreement is reached on the methods, it is proposed to publish them as Parts of this British Standard.

This Part is identical with ISO 3709 “*Phosphoric acid for industrial use (including foodstuffs) — Determination of oxides of nitrogen content — 3,4-Xylenol spectrophotometric method*”.

Terminology and conventions. The text of the International Standard has been accepted as suitable for publication, without deviation, as a British Standard. Certain terminology and conventions are used, however, that are not identical with those used in British Standards. Attention is therefore drawn to the following.

Where the words “International Standard” relating to this publication appear, they should be interpreted as “British Standard”.

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

Cross references. The related ISO publications listed in the Annex correspond to Parts of this British Standard as follows.

ISO publication	Part of BS 4258
ISO/R 848 ^a	Part 1 <i>Determination of calcium content</i>
ISO/R 849 ^a	Part 2 <i>Determination of iron content</i>
ISO 2997	Part 3 <i>Determination of sulphate content</i>
ISO 3360	Part 4 <i>Determination of fluorine content</i>
ISO 3361	Part 5 <i>Determination of silica content</i>
ISO 3359	Part 6 <i>Determination of arsenic content</i>
ISO 3706	Part 7 <i>Determination of phosphorus (V) oxide content</i>
ISO 3707	Part 8 <i>Determination of calcium content (flame atomic absorption method)</i>
ISO 3708	Part 9 <i>Determination of chloride content</i>
ISO 3709	Part 10 <i>Determination of oxides of nitrogen content</i>
ISO 4285	Part 11 <i>Guide to sampling techniques</i> ^b

^a At the time of publication of this British Standard, ISO/R 847, ISO/R 848 and ISO/R 849 have not been transformed into International Standards, although they are listed as such in the Annex.

^b In course of preparation.

There is no British Standard corresponding to ISO/R 847¹⁾ and it is not intended that one will be published as the method uses as a reagent the known carcinogen benzidine and ISO/TC 47/SC 6 has recommended that it be with-drawn.

Textual error. When adopting the text of the International Standard, the error given below was noticed. This has been corrected in this British Standard.

Clause reference	Textual change
Annex	In ISO 3709, the title of ISO 4285 was incorrectly given as “Sampling technique”.

¹⁾ At the time of publication of this British Standard, ISO/R 847, ISO/R 848 and ISO/R 849 have not been transformed into International Standards, although they are listed as such in the Annex.