

Fertilizers —

Part 4: Chemical analysis —

Section 4.1 Determination of nitrogen —

Subsection 4.1.2 Determination of ammoniacal nitrogen, titrimetric method after distillation

[ISO title: Fertilizers — Determination of ammoniacal nitrogen
content — Titrimetric method after distillation]

UDC 631.8:543.06:543.846

Cooperating organizations

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

- Association of Fatty Acid Distillers
- British Tar Industry Association
- Chemical Industries Association*
- Consumer Standards Advisory Committee of BSI
- Department of Health and Social Security
- Department of Industry, Laboratory of the Government Chemist*
- Fertiliser Manufacturers' Association Ltd.*
- 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
- Royal Society of Chemistry
- 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 Technical Committee entrusted with the preparation of this British Standard:

- Association of Public Analysts
- British Agrochemicals Association
- Institute of Trading Standards Administration

This British Standard, having been prepared under the direction of the Chemicals Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 July 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 Chemicals Standards Committee in order to standardize terminology and labelling, sampling and methods of physical and chemical testing for fertilizers.

For some years the United Kingdom has participated in the standardization of methods of analysing fertilizers through Subcommittee 4, Chemical analysis, of Technical Committee 134, Fertilizers and soil conditioners, of the International Organization for Standardization (ISO). As international agreement is reached on the methods, it is proposed to publish them as Sections of BS 5551.

The standard is to be published in four Parts, each Part being subdivided into Sections and, where appropriate, Subsections. The four Parts are:

- *Part 1: Terminology and labelling;*
- *Part 2: Sampling;*
- *Part 3: Physical properties;*
- *Part 4: Chemical analysis.*

Part 4 is to be divided into five Sections as follows:

- *Section 4.1: Determination of nitrogen;*
- *Section 4.2: Determination of phosphorus;*
- *Section 4.3: Determination of potassium;*
- *Section 4.4: Determination of water;*
- *Section 4.5: Determination of other constituents.*

This Subsection of Part 4 is identical with ISO 5314:1981 “*Fertilizers — Determination of ammoniacal nitrogen content — Titrimetric method after distillation*”.

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”.

Cross-references

International Standard	Corresponding British Standard
ISO 1042:1981	BS 1792:1982 <i>Specification for one-mark volumetric flasks</i> (Identical)

The Technical Committee has reviewed the provisions of ISO/R 385, to which reference is made in clause 2 and 5.2, ISO 641, to which reference is made in clause 2 and ISO 648, to which reference is made in clause 2 and 5.4, and has decided that they are acceptable for use in conjunction with this standard.

Related British Standards for ISO/R 385, ISO 641 and ISO 648 are BS 846 “*Specification for burettes*”, BS 2761 “*Spherical ground glass joints*” and BS 1583 “*One-mark pipettes*” respectively.

Additional information. (1) This British Standard specifies methods of test only and should not be used as a specification defining limits of purity. Reference to the standard should indicate that the methods of test used are in accordance with BS 5551-4.1.2.