

Soil quality —

Part 3: Chemical methods —

Section 3.12. Determination of the potential cation exchange capacity and exchangeable cations using barium chloride solution buffered at pH = 8.1

ICS 13.080

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by Technical Committee EH/4, Soil quality, to Subcommittee EH/4/3, Chemical methods, upon which the following bodies were represented:

- Association of Consulting Scientists
- Association of Public Analysts
- British Ceramic Research Ltd.
- British Gas plc
- British Society of Soil Science
- Department of the Environment (Drinking Water Inspectorate)
- Department of Trade and Industry (Laboratory of the Government Chemist)
- National Rivers Authority
- Royal Society of Chemistry
- Society of Chemical Industry
- Soil Survey and Land Research Centre
- Water Research Centre
- Water Services Association of England and Wales

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The following BSI references relate to the work on this standard:
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Amendments issued since publication

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National foreword

This Section of BS 7755 has been prepared by Subcommittee EH/4/3 and is identical with ISO 13536:1995 *Soil quality — Determination of the potential cation exchange capacity and exchangeable cations using barium chloride solution buffered at pH = 8,1*, published by the International Organization for Standardization (ISO).

ISO 13536 was prepared by Subcommittee 3, Chemical methods, of Technical Committee ISO/TC 190, Soil quality, with the active participation and approval of the UK.

BS 7755 is being published in a series of Parts subdivided into Sections and Subsections that will generally correspond to particular international standards. Other Parts of BS 7755 are, or will be, as follows.

- *Part 1: Terminology and classification;*
- *Part 2: Sampling;*
- *Part 3: Chemical methods;*
- *Part 4: Biological methods;*
- *Part 5: Physical methods;*

Cross-references

International standard	Corresponding British Standard
ISO 3696:1987	BS EN ISO 3696:1995 <i>Water for analytical laboratory use — Specification and test methods</i> (Identical)
ISO 11464:1994	BS 7755 <i>Soil quality</i> Part: 3 <i>Chemical methods</i> Section 3.5:1995 <i>Pretreatment of samples for physico-chemical analyses</i> (Identical)

Textual error. When adopting the text of the international standard, the following textual error was discovered. It has been marked in the text and has been reported to ISO in a proposal to amend the text of the international standard.

In 4.2.5, the correct presentation of the second formula is:

$$\text{CEC} = \frac{3\,000(c_2 - c_{b1})}{m}$$

Additional information

Although the use of ICP-AES is mentioned in clause 3, no instructions are given in the procedural clauses for this method of analysis.

In 4.1.2, typical storage conditions are approximately 4 °C for a maximum of 24 h. 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.