

Analysis of fuel gases —

Part 11: Methods for non-manufactured gases —

Section 11.4 Determination of sulfur compounds in natural gas —

Subsection 11.4.2 Odoriferous sulfur compounds by gas chromatography using an electrochemical detector

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee PTI/15, Natural gas and gas analysis upon which the following bodies were represented:

- AEA Technology
- British Coal Corporation
- British Compressed Gases Association
- British Gas plc
- British Glass Manufacturers' Confederation
- Chemical Industries Association
- Department of Trade and Industry (Gas and Oil Measurement Branch)
- Department of Trade and Industry (National Physical Laboratory)
- Institute of Petroleum
- Institution of Gas Engineers
- Sira Limited
- Society of Chemical Industry
- Society of Glass Technology

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

This Subsection of BS 3156 has been prepared by Technical Committee PTI/15, Natural gas and gas analysis. It is identical with ISO 6326-2:1981 *Gas analysis — Determination of sulfur compounds in natural gas — Part 2: Gas chromatographic method using an electrochemical detector for the determination of odoriferous sulphur compounds*, published by the International Organization for Standardization (ISO). ISO 6326-2 was prepared by Technical Committee 158, Analysis of gases, in which the United Kingdom participated.

This British Standard forms part of a series, each Subsection of Section 11.4 is identical with the corresponding Part of ISO 6326 and Section 11.4 of BS 3156 will consist of the following Subsections:

- *Subsection 11.4.1: Introduction;*
- *Subsection 11.4.2: Odoriferous sulfur compounds by gas chromatography using an electrochemical detector;*
- *Subsection 11.4.3: Hydrogen sulfide, mercaptan sulfur, and carbonyl sulfide sulfur by potentiometry;*
- *Subsection 11.4.4: Hydrogen sulfide, carbonyl sulfide and sulfur-containing odorants by gas chromatography using a flame photometric detector;*
- *Subsection 11.4.5: Lingener combustion method.*

In the United Kingdom the preferred method is that given in Subsection 11.4.4 of BS 3156. The flame photometric detector is available from most manufacturers of chromatographs, both laboratory and process units, and is applicable to any sulfur compound. By contrast, the electrochemical detector is available from a single supplier and is operated under completely different conditions in order to measure carbonyl sulfide to those used for all other sulfur compounds.

Cross-references. The reference to ISO 4260 is for information only. A British Standard related to ISO 4260 is BS 5379, which is identical to EN 41, and is in course of being replaced by the adoption by CEN of ISO 4260.

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.

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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.