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Responsible committee: PTI/15 Natural Gas and Gas Analysis

Interested committees:

Title: Draft BS EN ISO 14532 ISO 14532 Natural gas. Vocabulary.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 14532

Natural gas — Vocabulary

Gaz naturel — Vocabulaire

ICS: 75.060; 01.040.75

ISO/TC 193

Secretariat: **NEN**

Voting begins on:
2025-05-15

Voting terminates on:
2025-08-07

This document is circulated as received from the committee secretariat.

ISO/CEN PARALLEL PROCESSING

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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
Annex A (Normative) List of terms defined in ISO/IEC Guide 98-3 and ISO/IEC Guide 99	19
Bibliography	21

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee 193, Natural gas.

This third edition cancels and replaces the second edition (ISO 14532:2014), which has been technically revised.

The main changes are as follows:

- All general and well known terms that are not specific for natural gas and can be found in publicly available sources have been deleted.
 - All terms that are too specific to a certain topic in the field of natural gas have been deleted.
 - Some definitions have been modified, generalized with the aim to avoid becoming too specific to a certain topic in the field of natural gas.
 - Relevant terms from all ISO/TC 193 standards published since 2014 have been added.
 - All terms are listed in alphabetical order.
 - The Annex containing the alphabetical index has been deleted.
 - The Annex containing the indices, symbols and units has been deleted.
- An Annex containing a list of terms defined in ISO/IEC Guide 98-3:2008 Uncertainty of measurement (GUM) or ISO/IEC Guide 99:2007 International vocabulary of metrology (VIM) has been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

ISO/TC 193 Natural Gas has been established in May 1988, its current scope being:

- to standardize terminology, quality specifications, methods of measurement, sampling, analysis, and testing including thermophysical property calculation and measurement, for
 - natural gas
 - natural gas substitutes
 - mixtures of natural gas with other gaseous fuels (such as unconventional and renewable gases), and
 - wet gas

in all its facets from production to delivery to all possible end users across national boundaries.

- to standardize methods of analysis of liquefied natural gas (LNG).

As the aim is to create a coherent body of standards which support each other with regard to their definitions, common and unambiguous terms and definitions used throughout all International Standards is the starting point for the understanding and application of every International Standard.

The definitive intention of this document is to incorporate the reviewed definitions into the ISO/TC 193 standards.

The presentation of this document has been arranged to facilitate its use as follows:

- All terms are listed in alphabetical order
- Notes are given under numerous definitions where it was deemed important to give informative guidance for a given definition. The Notes are not considered a part of the definition.

The terms and definitions have been reviewed and studied in order to cover all aspects of any particular term with input from other sources such as European Standards from CEN (The European Committee for Standardization), standards from ASTM, national standards, and existing definitions in the IGU Dictionary of the Gas Industry.

Natural gas — Vocabulary

1 Scope

This document establishes the terms and definitions, used in the field of natural gas, natural gas substitutes, mixtures of natural gas with gaseous fuels (such as unconventional and renewable gases) and wet gas.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 absorption

retention, by physical or chemical forces of gas molecules, dissolved substances, or liquids by the bulk of solids or liquids with which they are in contact

Note 1 to entry: The process causes (or is accompanied by) a physical or chemical change, or both, in the sorbent material.

EXAMPLE Retention of siloxanes by charcoal.

3.2 adsorption

retention, by physical or chemical forces of gas molecules, dissolved substances, or liquids by the surface of solids or liquids with which they are in contact

EXAMPLE Retention of methane by carbon.

[SOURCE: ISO 10715:2022, 3.2]

3.3 amount of substance fraction amount fraction mole fraction

quotient of amount of substance of a component and total amount of substance in the mixture

[SOURCE: ISO 80000-9, 9.13, modified. Original definition: for substance X in a mixture, quotient of amount of substance n_X of X and total amount n of substance in the mixture: $X_x = n_X/n$]

3.4 analysis function

analyte content expressed as a function of instrumental response

[SOURCE: ISO 6143:2001]