

PD ISO/TR 16922:2013



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Natural gas — Odorization

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National foreword

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Natural gas — Odorization

Gaz naturel — Odorisation



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Foreword

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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. www.iso.org/directives

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 193, *Natural gas*.

ISO/TR 16922 cancels and replaces ISO/TS 16922:2002.

Introduction

Processed natural gas normally has little or no odour. For safety reasons, distributed natural gas should therefore be odorized, to permit the detection of the gas by smell.

The odorization is predominantly a safety measure for the user of natural gas. Odorized natural gas is recognized by the characteristic smell.

Natural gas — Odorization

1 Scope

This Technical Report gives the specifications and guidelines for the methods to be used in the odorization of natural gas under a safety point of view.

This Technical Report also specifies the principles for the odorization technique (including handling and storage of odorants) and the control of odorization of natural gas.

This Technical Report does not cover odorization of gas supply with gases other than natural gas.

NOTE The general requirements for odorants, and the physical and chemical properties of commonly used odorants are specified in ISO 13734.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5492:2008, *Sensory analysis — Vocabulary*

ISO 10715, *Natural gas — Sampling guidelines*

ISO 13734, *Natural gas — Organic components used as odorants — Requirements and test methods*

ISO 14532, *Natural gas — Vocabulary*

ISO 19739, *Natural gas — Determination of sulfur compounds using gas chromatography*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5492 and ISO 14532 and the following apply.

3.1 General

The following general definitions apply to the human ability for sensation, awareness and intensity of odour perception.

3.1.1

odour perception

awareness of the effect of volatile substances by the olfactory organ

3.1.2

odour character

distinctive and identifiable feature of an odour or flavour

3.1.3

odour intensity

magnitude of the perceived odour