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BSI Standards Publication

Refrigerated non-petroleum based liquefied gaseous fuels — Dimethylether (DME) — Method of manual sampling onshore terminals

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National foreword

This British Standard is the UK implementation of ISO 29945:2016. It supersedes BS ISO 29945:2009 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PTI/12, Petroleum Measurement and Sampling.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
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Full document details: BS ISO 29945:2016

Contents

Page

Foreword ... **iv**
Introduction ... **v**
1 Scope ... **1**
2 Normative references ... **1**
3 Terms and definitions ... **1**
4 Chemical and physical properties of DME ... **2**
4.1 General characteristics ... 2
4.2 Chemical and physical properties ... 2
5 Precautions ... **2**
5.1 General ... 2
5.2 Safety precautions ... 2
5.3 General precautions for sample cylinders ... 3
5.4 Sampling point ... 3
6 Sampling system ... **3**
6.1 Apparatus used for sampling ... 3
6.2 Materials and structure of sampling line and sample cylinders ... 5
6.2.1 General ... 5
6.2.2 Sampling line ... 5
6.2.3 Sample cylinder ... 5
7 Sampling ... **6**
7.1 Terminal in a loading port ... 6
7.2 Terminal in an unloading port ... 6
8 Preparation for sampling ... **6**
8.1 Visual inspection of sampling line and sample cylinder ... 6
8.2 Connection of the apparatus ... 6
8.3 Purging the sampling line and sample cylinder ... 6
9 Sampling procedure ... **7**
9.1 General ... 7
9.2 Two-valve sample cylinder with or without ullage tube ... 7
9.3 Single-valve sample cylinder ... 7
9.4 Two-valve sample cylinder with a siphon tube ... 7
10 Adjustment of sample volume ... **8**
10.1 Two-valve sample cylinder without ullage tube ... 8
10.2 Two-valve sample cylinder with ullage tube ... 8
10.3 Single-valve sample cylinder ... 8
10.4 Two-valve sample cylinder with a siphon tube ... 8
11 Checking for leakage ... **9**
12 Number of samples ... **9**
13 Identification of sample cylinder ... **9**
14 Retention of samples ... **10**
Bibliography ... **11**

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Full document details: BS ISO 29945:2016

Foreword

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The committee responsible for this document is ISO/TC 28, *Petroleum products and related products of synthetic or biological origin*, Subcommittee SC 5, *Measurement of refrigerated hydrocarbon and non-petroleum based liquefied gaseous fuels*.

This second edition cancels and replaces the first edition (ISO 29945:2009), which has been technically revised.

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Introduction

Measures for environmental protection are required on a global scale. In this context, various methods of achieving these aims have been independently studied or undertaken in many countries. One such project, the development of the use of dimethylether (DME) as a new form of energy, has been undertaken in several countries. The use of DME generates neither sulfur oxide nor any other particulate matter known to cause environmental pollution at the time of combustion.

Another benefit of the use of DME as a petroleum alternative is that it can be produced easily from natural gases, coals and biomasses with only slight additional development of the existing techniques of production, transportation, storage and consumption.

In international trade, especially bulk transportation by sea, DME is liquefied by either refrigeration or pressurization and transported using ocean-going DME tankers and/or LPG tankers. To detect qualitative deterioration of the DME that can take place during transportation or storage, the establishment of an International Standard, agreed to by all concerned nations and parties, is required.

This document specifies a method of manual sampling of DME liquefied by refrigeration for analysis to define and/or confirm adherence to contractual specifications.

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