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Naftasaadused. Alküülnitraatide määramine diislikütustes. Spektromeetriline meetod

Petroleum products - Determination of alkyl nitrate in diesel fuels -Spectrometric method

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 13759:2000 sisaldab Euroopa standardi EN ISO 13759:1996 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 11.01.2000 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 13759:2000 consists of the English text of the European standard EN ISO 13759:1996.</p> <p>This document is endorsed on 11.01.2000 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: Käesolev standard esitab diislikütuses alkülnitratide määramise protseduurid kontsentratsioonide vahemikus 0,03% (mahuprotsent) kuni 0,30% (mahuprotsent). Seda määramist võib mõjutada nitraatseerite olemasolu orgaaniliste nitraatioonidena, samuti lämmastikoksiidid. Nõutav on teadmine spetsiifiliste alkülnitratide olemasolust diislikütuses, sest seadmestiku kalibreerimine on usaldusväärne, kui etalonlahustes sisalduvad analüüsivad nitraadid.</p>	<p>Scope:</p>
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ICS 75.160.20

Võtmesõnad: autokütused, diislikütused, keemiline analüüs, kütused, naftasaadused, nitraadid, sisalduse määramine, spektromeetriline meetod

ICS 00.180

Descriptors: Petroleum products, alkyl nitrate, diesel fuels, spectrometry, analysis.

English version

Petroleum products

Determination of alkyl nitrate in diesel fuels

Spectrometric method
(ISO 13759:1996)

Produits pétroliers – Détermination du
nitrate d'alkyle dans les carburants
diesels – Méthode spectrométrique
(ISO 13759:1996)

Mineralölerzeugnisse – Bestimmung von
Alkylnitrat in Dieselkraftstoff –
Spektrometrisches Verfahren
(ISO 13759:1996)

This European Standard was approved by CEN on 1996-11-25.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

International Standard

ISO 13759:1996 Petroleum products – Determination of alkyl nitrate in diesel fuels – Spectrometric method, which was prepared by ISO/TC 28 'Petroleum products and lubricants' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 19 'Petroleum products, lubricants and related products', the Secretariat of which is held by NNI, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by June 1997 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 13759:1996 was approved by CEN as a European Standard without any modification.

WARNING — The use of this International Standard may involve hazardous materials, operations and equipment. This standard does not purport to address all of the safety problems associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This International Standard specifies a procedure for the determination of alkyl nitrate in diesel fuel in the concentration range 0,03 % (V/V) to 0,30 % (V/V) (volume fraction 0,03 % to 0,30 %).

A knowledge of the specific alkyl nitrate present in the diesel fuel is required for accurate determinations, as the calibration of instrumentation is reliant on reference solutions containing the nitrate to be analysed. When the specific alkyl nitrate is not known, a result comparative to a reference alkyl nitrate (4.2) gives indicative information.

NOTE — The addition of certain alkyl nitrates to diesel fuel enhances the cetane number as measured by the engine test described in ISO 5165. It has no effect on the cetane index value as described in ISO 4264. See annex A.

The presence of nitrate esters, inorganic nitrate ions and nitrogen oxides will interfere with this determination.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 385-1:1984, *Laboratory glassware — Burettes — Part 1: General requirements.*

ISO 835-1:1981, *Laboratory glassware — Graduated pipettes — Part 1: General requirements.*

ISO 1042:1983, *Laboratory glassware — One-mark volumetric flasks.*

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods.*