



SLOVENSKI STANDARD

SIST EN 238:1998/A1:2004

01-julij-2004

Tekol'i naftni proizvodi - Motorni bencini - Dolol'evanje benzena z infrardel'o spektrometrijo

Liquid petroleum products - Petrol - Determination of the benzene content by infrared spectrometry

Flüssige Mineralölerzeugnisse - Ottokraftstoff - Bestimmung des Benzolgehaltes durch Infrarotspektrometrie

Produits pétroliers liquides - Essence - Détermination de la teneur en benzene par spectrométrie infrarouge

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Ta slovenski standard je istoveten z: EN 238:1996/A1:2003

ICS:

75.160.20 Tekol'a goriva

Liquid fuels

SIST EN 238:1998/A1:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 238:1996/A1

December 2003

ICS 75.160.20

English version

Liquid petroleum products - Petrol - Determination of the
benzene content by infrared spectrometry

Produits pétroliers liquides - Essence - Détermination de la
teneur en benzène par spectrométrie infrarouge

Flüssige Mineralölerzeugnisse - Ottokraftstoff -
Bestimmung des Benzolgehaltes durch
Infrarotspektrometrie

This amendment A1 modifies the European Standard EN 238:1996; it was approved by CEN on 1 September 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This amendment exists 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 Management Centre has the same status as the official versions.

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

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN 238:1996/A1:2003 (E)**Foreword**

This document EN 238:1996/A1:2003 has been prepared by Technical Committee CEN/TC 19 "Petroleum products, lubricants and related products", the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2004, and conflicting national standards shall be withdrawn at the latest by June 2004.

The document contains updated precision data for benzene levels around 1% and below.

The reason for this amendment is an investigation of CEN/TC 19/WG 21, resulting in deviant precision data at low levels.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard : Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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Clause 10 is changed to read:

10 Precision

NOTE Results of the ASTM interlaboratory test program on the determination of benzene in gasoline by mid IR show similar precision data.

10.1 Repeatability, r

The difference between two test results, obtained by the same operator with the same apparatus under constant operating conditions on identical test material, would in the long run, in the normal and correct operation of the test method, exceed the values given in Table 2 only in one case in twenty.

10.2 Reproducibility, R

The difference between two single and independent results, obtained by different operators working in different laboratories on identical test material, would in the long run, in the normal and correct operation of the test method, exceed the values given in Table 2 only in one case in twenty.

Table 2 - Repeatability and reproducibility

Benzene content % (V/V)	Repeatability, r % (V/V)	Reproducibility, R % (V/V)
> 1	0,1	0,3
≤ 1	0,03	0,17

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