



NSAI
Standards

Irish Standard
I.S. EN 12177:1998

Liquid petroleum products - Unleaded petrol - Determination of benzene content by gas chromatography

I.S. EN 12177:1998

Incorporating amendments/corrigenda/National Annexes issued since publication:
EN 12177:1998/AC:2000

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i>	<i>This document is based on:</i> EN 12177:1998	<i>Published:</i> 22 April, 1998
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I.S. EN 12177:1998

EUROPEAN STANDARD

EN 12177:1998/AC

NORME EUROPÉENNE

November 2000

EUROPÄISCHE NORM

Novembre 2000

November 2000

English version
Version Française
Deutsche Fassung

Liquid petroleum products - Unleaded petrol - Determination of benzene
content by gas chromatography

Produits pétroliers liquides - Essence sans
plomb - Détermination de la teneur en
benzène par chromatographie en phase
gazeuse

Flüssige Mineralölerzeugnisse - Unverbleite
Ottokraftstoffe - Bestimmung des
Benzolgehaltes mittels
Gaschromatographie

This corrigendum becomes effective on 15 November 2000 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 15 novembre 2000 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 15. November 2000 in Kraft zur Einarbeitung der drei offiziellen Sprachfassungen der EN einzufügen.



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

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

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Ref. No. EN 12177:1998/AC:2000 D/E/F

I.S. EN 12177:1998

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EN 12177:1998/AC:2000

In the English version :

Clause 9 is changed to read:

Report the benzene content rounded to the nearest **0,01** % (V/V).

Dans la version française :

L'article 9 est modifié pour devenir :

Exprimer la teneur en benzène à **0,01** % (V/V) près.

Anzuwenden auf die Deutsche Fassung :

Abschnitt 9 wird geändert und lautet :

Der Gehalt an Benzol wird als Volumenanteile in % [% (V/V)] auf **0,01** % (V/V) gerundet, angegeben.

I.S. EN 12177:1998

DECLARATION

OF

SPECIFICATION

ENTITLED

LIQUID PETROLEUM PRODUCTS - UNLEADED PETROL - DETERMINATION OF
BENZENE CONTENT BY GAS CHROMATOGRAPHY

AS

THE IRISH STANDARD SPECIFICATION FOR

LIQUID PETROLEUM PRODUCTS - UNLEADED PETROL - DETERMINATION OF
BENZENE CONTENT BY GAS CHROMATOGRAPHY

NSAI in exercise of the power conferred by section 16 (3) of the National Standards Authority of Ireland Act, 1966 (No. 28 of 1996) and with the consent of the Minister for Enterprise, Trade and Employment, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Liquid petroleum products - Unleaded petrol - Determination of benzene content by gas chromatography) Declaration, 1998.
2. (1) The Specification set forth in the schedule to this declaration is hereby declared to be the standard specification for Liquid petroleum products - Unleaded petrol - Determination of benzene content by gas chromatography. The Schedule comprises the text of EN 12177:1998.
(2) The said standard specification may be cited as Irish Standard EN 12177:1998 or as I.S. EN 12177:1998.

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I.S. EN 12177:1998

EUROPEAN STANDARD

EN 12177

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1998

ICS 75.160.20

Descriptors: petroleum products, gasoline, chemical analysis, determination of content, benzene, chromatographic analysis, gas chromatography

English version

Liquid petroleum products - Unleaded petrol - Determination of benzene content by gas chromatography

Produits pétroliers liquides - Essence sans plomb -
Détermination de la teneur en benzène par
chromatographie en phase gazeuse

Flüssige Mineralölerzeugnisse - Unverbleite Ottokraftstoffe
- Bestimmung des Benzolgehaltes mittels
Gaschromatographie

This European Standard was approved by CEN on 23 March 1998.

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.

This European Standard 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 Central Secretariat 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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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EN 12177:1998

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 19 "Petroleum products, lubricants and related products", the secretariat of which is held by NNI.

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 October 1998, and conflicting national standards shall be withdrawn at the latest by October 1998.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

In this standard annex A is informative.

1 Scope

This European standard specifies a column switching gas chromatographic method for the quantitative determination of benzene content in the range 0,05 % (V/V) to 6 % (V/V) in unleaded petrol having a final boiling point not greater than 220 °C.

The method described in this standard is suitable for determining benzene in petrol, including petrol containing oxygenates, in line with the relevant EC Directives¹⁾.

NOTE : For the purposes of this European Standard, the terms “% (V/V)” and “% (m/m)” are used to represent respectively the volume fraction and the mass fraction.

WARNING : The use of this 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.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN ISO 3675	Crude petroleum and liquid petroleum products - Laboratory determination of density or relative density - Hydrometer method (ISO 3675:1993)
EN ISO 3838	Crude petroleum and liquid or solid petroleum products - Determination of density or relative density - Capillary-stoppered pyknometer and graduated bicapillary pyknometer methods (ISO 3838:1983)
EN ISO 12185	Crude petroleum and petroleum products - Determination of density - Oscillating U-tube method (ISO 12185:1996)
ISO 3170	Petroleum liquids - Manual sampling
ISO 3171	Petroleum liquids - Automatic pipeline sampling

3 Principle

The benzene-containing fraction is isolated from the sample using a capillary column and, in a second capillary column, the benzene is separated and detected using a flame ionization detector.

¹⁾ EC Directive 85/210/EEC, Council Directive on the approximation of the laws of the Member States concerning the lead content of petrol. EC Directive 85/536/EEC, Council Directive on crude-oil savings through the use of substitute fuel components in petrol.

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