

STN	Poživatiny Stanovenie benzénu v miešaných nápojoch, iných nápojoch a v potravinách zo zeleniny pre malé deti "headspace" plynovou chromatografiou s hmotnostnou spektrometriou (HS-GC-MS)	STN EN 16857 56 0243
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Foodstuffs - Determination of benzene in soft drinks, other beverages and vegetable-based infant foods by headspace gas chromatography mass spectrometry (HS-GC-MS)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/17

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EUROPEAN STANDARD

EN 16857

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Foodstuffs - Determination of benzene in soft drinks, other beverages and vegetable-based infant foods by headspace gas chromatography mass spectrometry (HS-GC-MS)

Produits alimentaires - Détermination de la teneur en benzène dans les boissons non alcoolisées, les autres boissons et les aliments pour nourrissons à base de légumes par chromatographie en phase gazeuse avec espace de tête couplée à la spectrométrie de masse (HS CG-SM)

Lebensmittel - Bestimmung von Benzol in Erfrischungsgetränken, anderen Getränken und in Babynahrung auf Gemüsebasis mit Headspace-Gaschromatographie/Massenspektrometrie (HS-GC-MS)

This European Standard was approved by CEN on 20 February 2017.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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European foreword

This document (EN 16857:2017) has been prepared by Technical Committee CEN/TC 275 “Food analysis - Horizontal methods”, the secretariat of which is held by DIN.

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 November 2017, and conflicting national standards shall be withdrawn at the latest by November 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

WARNING — The use of this standard can involve hazardous materials, operations and equipment. This standard does not purport to address all the safety problems associated with its use. It is the responsibility of the user of this standard to take appropriate measures for ensuring the safety and health of the personnel prior to application of the standard and to fulfil statutory requirements for this purpose. Benzene has been classified by IARC as carcinogenic to humans (see [1]).

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies a method for the determination of benzene in soft drinks, other beverages and vegetable-based infant foods, by headspace gas chromatography mass spectrometry (HS-GC-MS). The method has been validated in an interlaboratory study via the analysis of spiked samples of carbonated soft drink, still fruit-based drink, carbonated fruit-based drink, vegetable and fruit juice containing carrot, infant food vegetable based and infant food containing meat, ranging from 1,9 µg/kg to 18,6 µg/kg. However, linearity of the instrument response was proven for the concentration range from 0,5 µg/kg to 20 µg/kg. The limit of quantification (LOQ) depends on the instrument but can generally be expected to be in the range from 0,5 µg/kg to 1,0 µg/kg.

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.

EN ISO 3696:1995, *Water for analytical laboratory use - Specification and test methods (ISO 3696:1987)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN