Chinastandards.org

ICS 67.200
CCS X14

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3626-2013

Determination of hexanal in edible oil for export. Headspace-SPME-GC method

出口食用油中正己醛含量的测定 顶空固相微萃取气相色谱法

(English Translation)

Issued on: August 30, 2013 **Implemented on: March 1, 2014**

Issued by: General Administration of Customs

Preview: page 1 of 4 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3626-2013

Chinastandards.org

Table of Contents

Foreword

1 Scope

2 Method summary

3 Reagents and materials

3.1 Ether. HPLC grade, boiling point 35 °C

4 Instruments and equipment

5 Sample preparation and preservation

5.1 Sample Preparation

Foreword

Accordance with the standards GB/T 1.1-2009, rules GB/T 20001.4-2001 given draft.

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. in Huazhong Min Republic Xiamen Inspection & Quarantine Technology Center, Xiamen University.

1 Scope

This standard specifies the headspace solid phase micro extraction and gas chromatographic method CKS oil hexanal.

This standard applies to the determination of edible oil CKS hexanal peanut oil, olive oil, soybean oil, corn oil, sunflower oil, cooking oil and so on.

2 Method summary

Headspace Solid Phase Micro Extraction of edible oils and fats CKS hexanal, using a gas chromatograph equipped with a hydrogen flame detector was measured standards Quantitative added.

Preview: page 2 of 4 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3626-2013

3 Reagents and materials

Except where noted, all reagents were of analytical grade, water is deionized water.

3.1 Ether. HPLC grade, boiling point 35 °C

3.2 hexanal (Hexanal, CAS No. 66-25-1) Standard. greater than 98% purity.

3.3 hexanal standard stock solution. with n-hexanal standard (3.2) and diethyl ether (3.1) formulated as 100mg/L of n-hexanal stock standard solution, to (0 ~ 4) °C refrigerator in the dark, valid for one year.

3.4 hexanal standard working solution. standard stock solution was diluted with diethyl ether (3.3) to a concentration of 0.50mg/L, 1.0mg/L, 2.5mg/L, 5.0mg/L, 7.5mg/L, series of standards 10.0mg/L of the working fluid and set aside.

4 Instruments and equipment

4.1
Gas Chromatograph equipped with a flame ionization detector (FID).

4.2
solid phase micro extraction device.

4.3
extraction bottles and matching caps.

4.4
fiber SPME. 85μmCarboxen/PDMS (polydimethylsiloxane) SPME fibers or equivalent person.

4.5
Analysis of balance. a sense of the amount of 0.1mg and 0.01g.

4.6
oscillator.

4.7
magnetic stirrer.

4.8
heater.

Preview: page 3 of 4 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3626-2013

Chinastandards.org

4.9
timer.

5.1 Sample Preparation

Take the same batch of at least three complete package minimum sample 500mL, placed in containers, the sample is mixed, to be treated.

Preview: page 4 of 4 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3626-2013