

Translated English of Chinese Standard: GB17377-2008

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NATIONAL STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 17377-2008 / ISO 5508:1990

Replacing GB/T 17377-1998

**Animal and vegetable fats and oils —
Analysis by gas chromatography of
methyl esters of fatty acids**

动植物油脂 脂肪酸甲酯的气相色谱分析

(ISO 5508: 1990, IDT)

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Foreword

This standard is identical to ISO 5508: 1990 *Animal and vegetable fats and oils — Analysis by gas chromatography of methyl esters of fatty acids* (English Edition).

In order for ease of use, the following editorial changes have been made in this standard to ISO 5509: 2000:

- Delete “Foreword” of the international standard;
- Change “this international standard” to “this standard”;
- Replace the comma “,” that is used as decimal point to “.”

This standard is the revision of GB/T 17377-1998 *Animal and vegetable fats and oils--Analysis by gas chromatography of methyl esters of fatty acids*.

Main differences between this standard and GB/T 17377-1998 are as follows:

- Delete “ISO Foreword” in previous version;
- Change “Annex A” in previous version to “5.1.2” in this standard.

This standard shall replace GB/T 17377-1998 from the implementation date.

This standard was proposed by State Grain Administration.

This standard shall be under the jurisdiction of National Technical Committee on Grain and Oil of Standardization Administration of China.

The responsible drafting organizations of this standard: Xi’an Grease Science Research & Design Institute of State Grain Administration, Shanxi Product Quality Supervision and Inspection Center, and COFCO Group Yellow Sea Rain and Vegetable Oil Industry (Shandong) Co., Ltd.

The chief drafting staffs of this standard: Meng Ju, Xia Tianwen, Wang Huifang, Tang Xin, Xu Guanghong, Ni Fangyan, and Liu Peilian.

This standard replaces the following historical edition:

- GB/T 17377-1998.

Animal and vegetable fats and oils — Analysis by gas chromatography of methyl esters of fatty acids

1 Scope

This standard gives general guidance for the application of gas chromatography, using packed or capillary columns, to determine the qualitative and quantitative composition of a mixture of fatty acid methyl esters obtained in accordance with the method specified in GB/T 17376.

The method is not applicable to polymerized fatty acids.

2 Normative references

The articles contained in the following documents have become part of this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this standard. For the undated documents so quoted, the latest editions shall be applicable to this standard.

GB/T17376 Animal and vegetable fats and oils — Preparation of methyl esters of fatty acids (ISO 5509:2000, IDT)

3 Reagents

3.1 Carrier gas

Inert gas (nitrogen, helium, argon, hydrogen, etc.), thoroughly dried and with an oxygen content of less than 10 mg/kg.

NOTE 1 Hydrogen, which is used as a carrier gas only with capillary columns, can double the speed of analysis but is hazardous. Safety devices are available.

3.2 Auxiliary gases

3.2.1 Hydrogen (purity \geq 99.9 %), free from organic impurities.

3.2.2 Air or oxygen, free from organic impurities.

The test report shall include all information necessary for the complete identification of the sample.

END

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Contact: Wayne Zheng, Sales@ChineseStandard.net

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