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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 33916-2017

**Animal and vegetable fats and oils -- Determination of
conventional mass per volume (liter weight in air)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is equivalent to the international standard ISO 6883.2007 "Animal and vegetable fats and oils conventional unit volume mass (per liter of air in the weight

Amount) of the determination. "

The documents of our country that are consistent with the corresponding international documents that are normative references in this standard are as follows.

--- GB/T 15687-2008 Animal and vegetable fats sample preparation (ISO 661.2003, IDT);

Laboratory glassware densitometer (ISO 3507.1999, IDT) - GB/T 21785-2008.

This standard proposed by the State Food Administration.

This standard by the National Cereals and Oils Standardization Technical Committee (SAC/TC270) centralized.

This standard was drafted by the State Food Administration of Science.

1 Scope

This standard specifies the determination of animal and plant fats and oils (hereinafter referred to as grease) conventional unit volume mass (per liter in air weight)

For volume and quality conversion between each other.

This standard applies to liquid state grease.

In the determination of the temperature should ensure that the oil does not appear crystallized.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 661 Animal and vegetable fats sample preparation
(Animalandvegetablefatsandoils-Preparationoftestsam-
ple

ISO 3507 laboratory glass densitometer (Laboratoryglassware-Pyknometers)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Conventional unit volumetric massmassmasspervolume

Literweightinair per liter of weight in the air

The ratio of mass to volume of grease in air at the stated temperature.

Note. The conventional unit volume mass is expressed in kilograms per liter (numerically equivalent to grams per milliliter).

4 principle

Measure the mass of the measured liquid grease in the calibrated densitometer at the specified temperature.

5 instruments

Laboratory equipment commonly used, especially the following equipment.

5.1 water bath. Can control the temperature, the change in the range of +/- 0.1 degrees C.

Water bath with a calibrated fixed thermometer, thermometer scale accuracy of 0.1 degrees C, thermometer range should be applied to the temperature range.

5.2 Densitometer (Jaulmes) A capacity of 50 mL with lateral neck.

Density meter Cone can be fixed at a calibrated and graduated 0.1 ° C thermometer with a perforated lid on the top of the neck or

Plug (see Figure 1).

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