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

GB/T 14454.6-2008

**Fragrance/Flavor substances -- Quantitative evaluation of
residue on evaporation
(English Translation)**

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Foreword

GB/T 14454, Fragrance/Flavor substances, consists of the following parts:

- Part 1: Fragrance/Flavor substances - Preparation of test samples;
- Part 2: Fragrance/Flavor substances - Method for valuation of odour;
- Part 4: Fragrance/Flavor substances - Determination of refractive index;
- Part 5: Fragrance/Flavor substances - Determination of optical rotation;
- Part 6: Fragrance/Flavor substances - Quantitative evaluation of residue on evaporation;
- Part 7: Fragrance/Flavor substances - Determination of freezing point;
- Part 11: Fragrance/Flavor substances - Determination of content of phenols;
- Part 12: Fragrance/Flavor substances - Method for determination of trace chlorinated compounds;
- Part 13: Fragrance/Flavor substances - Determination of carbonyl value and carbonyl compounds content;
- Part 14: Fragrance/Flavor substances - Preparation of standard solution, test solution and indicator solution;

-- Part 15: Oil of sassafras - Determination of safrole and isosafrole content

- Gas chromatographic method on packed columns.

This Part is Part 6 of GB/T 14454.

This Part modifies and adopts ISO 4715:1978, Essential oils - Quantitative evaluation of residue on evaporation. Compared with ISO 4715:1978, the main technical differences are as follows:

-- Remove the sampling method of ISO 4715:1978;

-- Add the evaluation of residue on evaporation for isolated and synthetic fragrance.

This Part is a revision of GB/T 14454.6-1993, Fragrance/Flavor substances - Quantitative evaluation of residue on evaporation. Compared with GB/T 14454.6-1993, this Part mainly adds relevant contents of the test report.

This Part was proposed by China National Light Industry Council.

Fragrance/Flavor substances -

Quantitative evaluation of residue on evaporation

1 Scope

This part of GB/T 14454 specifies the evaluation method for the residue on evaporation of fragrance.

This section applies to essential oils, isolated and synthetic fragrances that contain residues on evaporation.

2 Normative references

The terms in the following documents become the terms of this Part by reference to this Part of GB/T 14454. For dated references, all subsequent amendments (not including errata content) or revisions do not apply to this Part. However, the parties who agree on this Part are encouraged to study whether the latest versions of these documents can be used. For undated references, the latest edition applies to this Part.

GB/T 14454.1, Fragrance/Flavor substances - Preparation of test samples

(GB/T 14454.1-2008, ISO 356:1996, MOD)

3 Terms and definitions

The following terms and definitions apply to this part of GB/T 14454.

3.1

residue on evaporation

The sample to be tested is placed onto the boiling water bath for heating, according to the time specified in the relevant product standards; obtain the residue after evaporating off the volatile part, expressed in mass fraction.

4.1 Essential oil: Evaporate the volatile parts, on a boiling water bath; weigh the mass of residue.

4.2 Isolated and synthetic fragrances: evaporate the volatile parts, on a boiling water bath; dry to a constant-mass; then weigh the mass of residue.

5 Instruments

Commonly used instruments in the laboratory, especially the following instruments:

5.1 Boiling water bath: There are some circular-holes with a diameter of about 55mm on the lid. The water level of the water bath shall be maintained unchanged throughout the test, that is, about 50mm below the lid.

5.2 Evaporation dish: Corrosion-resistant glass, diameter is about 60mm, dish height is about 30mm.

6.1.1 Preparation of sample

According to the provisions of GB/T 144.54.1.

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