

ICS 65.160
CCS X 85

YC

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

YC/T 145.3-1998

Replacing YC/T 145.3-1998

**Tobacco flavor. Determination of refractive index
(English Translation)**

Issued on: January 1, 1970

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Foreword

YC/T 145 consists of the following components.

- Part 1. Determination of smoke flavor with acid value;
- Part 2. Determination of relative density of smoke flavor;
- Part 3. Determination of smoke flavor refractive index;
- Part 4. Assessment of tobacco flavor in ethanol miscible degrees;
- Part 5. Assessment tobacco flavors with clarity;
- Part 6. Generic smoke flavor aroma quality evaluation methods;
- Part 7. tobacco flavor determine the standard samples and preservation;
- Part 8. Methods of evaluating the smoke flavor generic quality;
- Part 9. smoke flavor universal detection method with a total of volatile components;
- Part 10. Sampling tobacco flavor;
- Part 11. tobacco flavor complex sample pretreatment methods.

This section YC/T 145 Part 3.

This section drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20001.4 given.

This part is the YC/T 145.3-1998 "tobacco flavor refractive index measurement," the amendment. This section from the date of implementation of substitute YC/T 145.3-1998.

This section compared with YC/T 145.3-1998, the main technical differences are as follows.

- Removed Normative references GB/T 14455.2-1993 oil sampling methods;

- Increasing the normative references YC/T 145.10 tobacco flavor sampling;
- Increasing the normative references YC/T 145.11 before tobacco flavor complex sample preparation methods;
- Increase in the content of the test report;
- Adds automatic refractometer test methods.

This part by the State Tobacco Monopoly Bureau.

This part of the National Standardization Technical Committee of tobacco smokable material Technical Committee (SAC/TC144/SC8) centralized.

This section drafted by. China National Tobacco Corporation, Zhengzhou Tobacco Research Institute, China Tobacco Standardization Research Center, the Anhui Tobacco Industry Co., Ltd, Hongta Tobacco (Group) Co., Ltd. Huafang tobacco flavor, Henan Tobacco Industry Co., Ltd., Shenzhen wave Dayton spices Limited, Warburg food flavors and fragrances (Shanghai) Co., cloud NARI liters Tobacco Technology (Group) Co., Ltd., the State Tobacco Quality the amount of supervision and inspection center.

1 Scope

YC/T in this part 145 specifies the method for the determination of smoke flavor refractive index.

This section applies to tobacco flavor refractive index measurement.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis YC/T 145.10 sampling tobacco flavor YC/T 145.11 Tobacco flavor complex samples before processing

3 Terms and Definitions

The following terms and definitions apply to this document.

Tobacco Flavor at 20 °C refractive index refractiveindexoftobaccoflavorat20 °C 20 °C, with a certain wavelength of light propagation velocity in the air and in the ratio of tobacco flavor propagation velocity can also be expressed as Light having certain wavelengths of flavor, the angle of incidence and refraction angle sine sine ratio enters smoke from the air.

Note: The wavelength is defined as (589.3 ± 0.3) nm, equivalent to the sodium D line spectrum.

Principle 4

According to the type of instrument used, direct measurement of the angle of refraction or total reflection observation of the critical line, tobacco flavor should remain isotropic and transparent of the state.

5 Reagents

5.1

reagents used were of analytical reagent grade water should be consistent with GB/T 6682 in the three water requirements.

5.2 Standards

5.2.1

water, refractive index of 1.3330 at 20 °C.

5.2.2

cymene, refractive index of 1.4906 at 20 °C.

5.2.3

benzyl benzoate, a refractive index of 1.5685 at 20 °C.

5.2.4 1-bromo-naphthalene, a refractive index of 1.6585 at 20 °C.

6 Instruments

Common laboratory apparatus and the following items.