

ICS 71.100.60
CCS Y 41



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

GB/T 26514-2011

Oil of *Melaleuca alternifolia*, terpinen-4-ol type (tea tree oil)

互叶白千层(精)油, 松油烯-4-醇型[茶树(精)油]

(English Translation)

Issued on: May 12, 2011

Implemented on: November 1, 2011

Issued by: Standardization Administration of China

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Requirements

Foreword

This revised standard adopts ISO 4730:2004 "Melaleuca oil, pine-4-ol type (tea tree oil)."
This standard and ISO 4730.

Compared to 2004, the main technical differences are as follows.

- Remove the ISO 4730:2004 sampling methods;
- Test Methods "Common test methods for spices of" national standards;
- Optical rotation by the "5 ° ~ 15 °" to "1 ° ~ 15 °", characterized by the component content of "1,8-cineole and other 15 components" to "1,8-cineole, pine-4-ol two component";
- Increased inspection rules;
- For signs, packaging, transportation, storage and shelf life of the contents of specific provisions;
- Added Appendix B of tea (refined) oil representative and characteristic component content range.

Appendix A of this standard and Appendix B is an informative annex.

The standard proposed by China National Light Industry Council.

This standard by the National Standardization Technical Committee of Fragrance Flavor and Cosmetic (SAC/TC257) centralized.

This standard was drafted. Shanghai Spice Institute, Guangdong Province forest products quality inspection stations, ten thousand Hui spices Ltd. Nanning, South China Normal University Analysis and Testing Center, Kunming Ai harmonic Manufacturing Co., Ltd. spices.

1 Scope

This standard specifies the Melaleuca (refined) oil, pine-4-ol type [tea (refined) oil] requirements, test methods, inspection rules and standard Chi, packaging, transportation, storage and shelf life.

This standard applies to Melaleuca (refined) oil, pine-4-ol type [tea (refined) oil].

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 11538-2006 oils by capillary column gas chromatography - General method (ISO 7609. 1985, IDT) GB/T 11540 Determination of relative density of spices (GB/T 11540-2008, ISO 279:1998, MOD) GB/T 14454.2 spice aroma evaluation method GB/T 14454.4 spices refractive index measurement (GB/T 14454.4-2008, ISO 280:1998, MOD) GB/T 14454.5 Determination of spices optical rotation (GB/T 14454.5-2008, ISO 592:1998, MOD) GB/T 14455.3 spices dissolved in ethanol (mixed) to assess the degree (GB/T 14455.3-2008, ISO 875:1999, MOD)

3 Terms and Definitions

The following terms and definitions apply to this standard.

Melaleuca (refined) oil, pine-4-ol type [tea (refined) oil] oil of Melaleuca alternifolia, terpinen-4-ol type (Teatree oil) by steam distillation from the growth in southern China Melaleuca tree [Melaleuca alternifolia (Maiden et Betcher) Cheel] leaves and twigs to extract the oil. Hereinafter referred to as tea (refined) oil.

4 Requirements

4.1. colorless to pale yellow clear liquid.

4.2

Aroma. characteristic aroma.

4.3

Relative density (20 °C/20 °C). 0.885 ~ 0.906.

4.4

Refractive index (20 °C). 1.4750 ~ 1.4820.

4.5

Optical rotation (20 °C). 1 ° ~ 15 °.

4.6

miscibility (20 °C). 1 volume of the sample soluble in 2 volumes of 85% (volume fraction) ethanol as a clear solution.

4.7

Characteristics component content (GC). Table 1.

Table 1 Characteristics of the component content in%

Characteristic component content 1,8 cineole ≤ 5 Terpinene-4-ol ≥ 30