



GB/T 22731-2017

Fragrance compound

日用香精

China AQSIQ

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National Standard of the People's Republic of China

GB/T 22731-2017
Replacing GB/T 22731-2008

Fragrance compound

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Issued by **General Administration of Quality Supervision, Inspection and Quarantine**
of the People's Republic of China
Standardization Administration of the People's Republic of China

Foreword

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

This standard replaces GB/T 22731-2008 “Fragrance compound”. Compared with GB/T 22731-2008, the major changes in this standard are as follows:

——the requirement of “‘license number’ shall be indicated on the product packages” has been deleted (see Section 7.1 in the 2008 edition);

——the eleven categories of products in which fragrance compounds are used have been modified (see Table A.1 in this standard and Table A.1 in the 2008 edition);

——the fragrance/flavor substances restricted for use in fragrance compounds and their maximum levels in the eleven categories of fragranced products have been modified (see Table B.1 in this standard and Table B.1 in the 2008 edition);

——the materials prohibited for use in fragrance compounds have been modified (see Table C.1 in this standard and Table C.1 in the 2008 edition).

This standard was proposed by China National Light Industry Council.

This standard is under the jurisdiction of National Technical Committee on Flavor & Fragrance and Cosmetic of Standardization Administration of China (SAC/TC 257).

Drafting organizations of this standard are: Shanghai Research Institute of Fragrance & Flavor Industry, Guangdong Wincom Flavors & Fragrances Co., Ltd., Shanghai Takasago-union Fragrances & Flavors Co., Ltd., Apple Flavor and Fragrance Group Co., Ltd., Shenzhen Boton Flavors & Fragrances Co., Ltd., Guangzhou Baihua Flavours and Fragrances Co., Ltd, International Flavors & Fragrances Inc., Givaudan Fragrances (Shanghai) Ltd. and Tianjin Double Horse Flavor & Fragrance New Technological Co., Ltd.

Main drafters of this standard are: Jin Qizhang, He Luoqiang, Li Jing, Hu Yongcheng, Jie Sui, Li ZeHong, Liu Qinxuan, Chen Jing, Feng Zhijie and Cao Yi.

This standard was firstly issued in December 2008 and this is the first revision.

Fragrance compound

1 Scope

This standard specifies the terms and definitions, requirements, test methods, inspection rules, marking, packaging, transportation, storage and shelf life of fragrance compound.

This standard is applicable to the analysis and evaluation of the quality of various categories of liquid fragrance compounds.

2 Normative References

The following documents are indispensable for the application of this document. For dated references, only the noted date edition of the normative document is applicable to this document. For undated references, the latest edition (including all the amendments hereof) of the normative document referred to applies.

GB 2760 National food safety standard - Standards for uses of food additives

GB 5009.74 National food safety standard - Method for limit test of heavy metals in food additives

GB 5009.76 National food safety standard - Determination of arsenic in food additives

GB/T 11540 Fragrance/Flavor substances - Determination of relative density (GB/T 11540-2008, ISO 279:1998, MOD)

GB/T 14454.2 Fragrance/Flavor substances - Method for valuation of odor

GB/T 14454.4 Fragrance/Flavor substances - Determination of refractive index (GB/T 14454.4-2008, ISO 280:1998, MOD)

GB 30616 National food safety standard - Food flavorings

3 Terms and Definitions

For the purposes of this standard, the terms and definitions given in the following apply.

3.1 Fragrance compound

A mixture blended with fragrance/flavor substances and auxiliary materials in accordance with a certain formula

3.2 Reference sample

A specific substance determined to be used for inspection by the technical department in conjunction with the relevant departments/personnel through determination and odor valuation of samples

3.2 Test sample

A sample taken for inspection from the samples drawn

4 Requirements

4.1 Color: Shall comply with the requirements regarding the color of the reference sample of the same type.

4.2 Odor: Shall comply with the requirements regarding the characteristic odor of the reference sample of the same type.

4.3 Relative density (25°C/25°C or 20°C/20°C or 20°C/4°C): $D_{\text{reference sample}} \pm 0.010$

4.4 Refractive index (20°C): $n_{\text{reference sample}} \pm 0.010$

4.5 Heavy metals (as Pb): $\leq 10 \text{ mg/kg}$ (excl. products under Category 11 in Annex A)

4.6 Arsenic (as As): $\leq 5 \text{ mg/kg}$ (excl. products under Category 11 in Annex A)

4.7 The eleven categories of products in which fragrance compounds are used shall comply with the provisions in Annex A; the fragrance/flavor substances restricted for use in fragrance compounds and their maximum levels in the eleven categories of fragranced products shall comply with the provisions in Annex B; the materials prohibited for use in fragrance compounds shall comply with the provisions in Annex C.

5 Test Methods

5.1 Determination of color

Place the test sample and reference sample at the same graduation mark respectively in two colorimetric tubes of the same size, horizontally observe against a white background and compare the color of reference sample with that of test sample.

5.2 Valuation of odor

Shall be performed according to the provisions in GB/T 14454.2

5.3 Determination of relative density

Shall be performed according to the provisions in GB/T 11540

5.4 Determination of refractive index

Shall be performed according to the provisions in GB/T 14454.4

5.5 Determination of heavy metals (as Pb)

Shall be performed according to the provisions in GB 5009.74

5.6 Determination of arsenic (as As)

Shall be performed according to the provisions in GB 5009.76

6 Inspection Rules

6.1 The quality inspection department of the manufacturer shall be responsible for the inspection of fragrance compound; the manufacturer shall ensure that all products delivered out of the factory meet the requirements of this standard; each batch of products delivered out of the factory shall be attached with the quality certificate. In addition, the customers shall be informed in written form of the maximum use levels of the fragrance compound in the eleven categories of fragranced products or in designated products. Delivery inspection items include color, odor, relative density and refractive index and the type inspection shall cover the inspection of all items and shall be conducted once a year.

6.2 The acceptance unit shall have the right to inspect whether or not the quality of the products received complies with the requirements of this standard in accordance with the provisions in this standard. The acceptance inspection shall be conducted on each batch of products and different batches shall undergo the acceptance inspection separately.

6.3 Sampling method: In case of 1~2 packing units per batch, draw all of them; in case of 3~100 packing units per batch, draw 2 of them; in case of more than 100 packing units per batch, add some and then draw 3% of them. Uniformly draw 50 mL~100 mL of test sample from each packing unit using a sampler, place all the test samples drawn into a mixing device for fully mixing, and then dispense into two clean, dry and airtight inert containers for storage away from light. The containers shall be properly labelled with the manufacturer name, product name, date of manufacture, batch number, quantity and date of sampling, with one bottle for inspection and the other retained for future inspection.

6.4 If one indicator in the results of acceptance inspection does not meet the requirements of this standard, the double amount of test sample may be re-drawn for re-inspection from the manufacturer. If there is still one unqualified indicator in the results of re-inspection, the corresponding batch of products cannot be accepted.

6.5 Any dissent on the product quality between supply and requisitioning parties may be settled through negotiation between the two parties or arbitrated by the statutory inspection body.

7 Marking, Packaging, Transportation, Storage and Shelf life

7.1 Marking

The product packages shall be externally indicated with the product name, name and address of manufacturer, trademark, batch number, net content, date of manufacture, shelf life, standard number and relevant marks, and the provisions of the relevant departments shall be complied with. If the customer has any special request, he/she may make other agreements with the manufacturer separately.

7.2 Packaging

The fragrance compound products shall be packaged in the clean glass bottles, polyethylene-made hard plastic bottles or buckets, galvanized iron buckets, plastic-plated iron buckets and aluminum buckets which are free from any foreign odor, or packaged according to customers' demands.

7.3 Transportation

Products shall be handled with care during transportation, protected from sun and rain, and must not be loaded and transported together with toxic and harmful substances, and the provisions of the relevant departments shall be complied with.

7.4 Storage

This product shall be stored in a cool, dry and ventilated warehouse and kept away from fire, and shall avoid contamination from offensive odor.

7.5 Shelf life

For unsealed products with intact packages under the specified conditions of storage and transportation, the shelf life of six months to three years shall be determined by the manufacturing enterprise according to the characteristics of specific products.

Annex A (normative)

Eleven categories of products in which fragrance compounds are used

See Table A.1 for the eleven categories of products in which fragrance compounds are used. For lip products and products intended to come into contact with oral cavity, in addition to the provisions in this standard, the fragrance/flavor substances used therein shall also comply with the provisions regarding the fragrance/flavor substances permitted for use in GB 2760 and the auxiliary materials used therein shall comply with the provisions regarding the auxiliary materials permitted for use and the raw materials permitted for use in final products in GB 30616.

Table A.1 Eleven categories of products in which fragrance compounds are used

Category	Products
类别	产品
Category 1	1. 所有类型的唇用产品(固体和液体唇膏、香脂、透明的等)[lip products of all types (solid and liquid lipsticks, balms, clear, etc.)]; 2. 玩具 (toys).
Category 2	1. 所有类型的祛臭和抑汗产品(喷雾的、棒状的、滚球式的、腋下的和身体的等)[deodorant and antiperspirant products of all types (spray, stick, roll-on, under arm and body, etc.)]; 2. 加香手镯 (fragranced bracelets); 3. 鼻贴(nose pore strips).
Category 3	1. 用于刚剃过毛(须)的皮肤上的水醇产品(hydroalcoholic products applied to recently shaved skin); 2. 所有类型的眼用产品[眼影、睫毛油(膏)、眼线膏(笔)、眼美容品、眼膜、眼枕等],包括眼护理品[eye products of all types (eye shadow, mascara, eyeliner, eye make up, eye masks, eye pillows, etc.), including eye care]; 3. 男性脸用面霜(men's facial creams, balms); 4. 棉塞(止血塞)(tampons); 5. 婴幼儿膏、霜、露、油(baby creams, lotions, oils); 6. 儿童用体绘用品(body paint for children).
Category 4	1. 用于未剃毛(须)的皮肤上的水醇产品,包括古龙水、淡香水、香水(hydroalcoholic products applied to unshaved skin); 2. 不用在腋窝上的体用喷雾产品(body sprays, with no intended or reasonably foreseeable use on the axillae); 3. 定发助剂,所有类型的喷发产品(泵式、气溶胶、喷雾等)[hair styling aids, hair sprays of all types (pumps, aerosol, sprays, etc.)]; 4. 体用膏霜、油、露,所有类型生香膏霜(婴幼儿膏霜、露除外)[body creams, oils, lotions, solid perfumes, fragrancing creams of all types(except baby creams and lotions)]; 5. 成套芳香产品组件(ingredients of perfume kits); 6. 用于成套化妆品的日用香精(fragrance compounds for cosmetic kits); 7. 香垫、箔包(scent pads, foil packs); 8. 水醇产品香条(scent strips for hydroalcoholic products); 9. 护足产品(footcare products); 10. 发用祛臭剂(hair deodorant); 11. 成人用体绘用品(body paint for adults).

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