

## Technical Data Sheet (TDS)

### - Anisyl Alcohol

**Revision Date:** 28 FEB 2026 **CAS Number:** 105-13-5 **Formula:** C<sub>8</sub> H<sub>10</sub> O<sub>2</sub> **Molecular Weight:** 138.16 g/mol

#### 1. Product Overview

Anisyl Alcohol is a high-purity aromatic alcohol with a **sweet, warm floral odor with distinct anisic, vanilla-like and mild balsamic undertones**, a key raw material in the fragrance, flavor, cosmetic and pharmaceutical industries. It is a naturally occurring compound in anise, vanilla and balsam fir, and our synthetic grade features ultra-high purity (≥99.0%), consistent odor and excellent stability. Supplied with BHT antioxidant to prevent oxidation and odor degradation, it complies with international IFRA, FDA and EU REACH regulations. It is widely used as a core fragrance material, flavor enhancer, cosmetic fragrance additive and pharmaceutical intermediate, renowned for its long-lasting scent retention and excellent fragrance fixative properties.

**Core Characteristics:** Ultra-high purity (≥99.0%); sweet floral-anisic-vanilla odor; excellent fragrance fixative; low volatility; supplied with antioxidant for stability; compliant with global regulatory standards; multi-industry applicability.

#### 2. Technical Specifications (Complies with IFRA/Food/Cosmetic Industrial Standards)

Item	Specification	Test Method
Appearance	Colorless to pale yellow clear viscous liquid	Visual Inspection
Assay (Purity)	≥ 99.0% (w/w)	Gas Chromatography (GC)
Odor	Characteristic sweet floral, anisic vanilla-like odor	Sensory Evaluation (IFRA Method)
Relative Density (20/20°C)	1.110-1.116 g/cm <sup>3</sup>	Hydrometer Method
Refractive Index (20°C)	1.542-1.548	- Abbe Refractometer
Boiling Point	259-261 °C	Distillation Method
Flash Point (Closed Cup)	≥ 120°C	Pensky-Martens Method
Water Content	≤ 0.1% (w/w)	Karl Fischer Titration
Acid Value (as KOH)	≤ 0.3 mg/g	KOH Titration
Heavy Metals (Pb)	≤ 5 ppm	Atomic Absorption Spectrometry (AAS)
Residue on Evaporation	≤ 0.1% (w/w)	Gravimetric Method
Viscosity (25°C)	15-20 mPa·s	Rotational Viscometer
Antioxidant Content	BHT 0.05-0.1% (w/w, optional)	GC
Solubility	Slightly soluble in water; miscible with ethanol, ether, essential oils and vegetable oils	Shake Flask Method

#### 3. Product Advantages

- Unique Aroma Profile:** Sweet warm floral note with anisic, vanilla and balsamic undertones, a classic ingredient for oriental, floral and gourmand fragrance formulations; long-lasting scent retention (24-48h in finished products).

2. **Ultra-High Purity & Stability:** Assay  $\geq 99.0\%$ , no impurity off-flavors/odors; supplied with BHT antioxidant to prevent oxidation and odor degradation; consistent physical and sensory properties across batches.
3. **Excellent Fragrance Fixative:** Low volatility enhances the longevity of top and middle notes in fragrance formulations; ideal for fine perfumes and long-lasting cosmetic/household product fragrances.
4. **Superior Compatibility:** Miscible with all common fragrance raw materials (esters, alcohols, aldehydes, terpenes, aromatics), cosmetic bases and essential oils; compatible with non-ionic/anionic/cationic surfactants (excluding strong oxidizers/acids).
5. **Multi-Functional Application:** Serves as a core fragrance material, flavor enhancer, cosmetic fragrance additive and pharmaceutical intermediate; mild odor suitable for both high-end fine fragrances and daily consumer products.
6. **Strict Regulatory Compliance:** Meets IFRA fragrance standards, China GB 2760 (food flavor), EU REACH and US FDA regulations; specified maximum use level in cosmetics (IFRA) to avoid skin sensitization.

#### 4. Application Fields

- **Fine Fragrances:** Core material for oriental, floral, vanilla, gourmand and balsamic fragrance profiles (perfumes, eau de toilette, cologne); acts as a middle/base note and fragrance fixative to enhance scent layering and longevity.
- **Functional Fragrances:** Air fresheners, candles, incense, car fresheners; adds sweet floral-vanilla note to daily fragrance products, suitable for indoor and personal use.
- **Household Product Fragrances:** Dish soap, laundry detergent, fabric softener, body wash; long-lasting sweet fragrance, ideal for personal care and home care products.

#### 5. Usage Methods & Dosage

Application Field	Dosage Range	Key Function
Fine Fragrances (Perfume/EDT)	2.0-8.0%	Core material, middle/base note, fragrance fixative
Cosmetic Formulations	0.05-0.3%	Sweet floral-anisic scent additive (IFRA limit)
Household Product Fragrances	0.2-1.5%	Sweet fragrance raw material, fixative
Food Flavoring	0.001-0.02%	Anise/vanilla flavor enhancer, bitter note masker
Oral Care Products	0.01-0.05%	Sweet flavor additive
Pharmaceutical/Fine Chemical Synthesis	10.0-60.0%	Key intermediate

#### 6. Packaging & Storage

- 1 L / 5 L Sealed dark glass bottles (laboratory/small-scale fragrance/flavor use, with BHT antioxidant);
- 25 L HDPE plastic drums (industrial/cosmetic use, opaque, with BHT antioxidant);
- 200 L stainless steel drums (bulk industrial use, with BHT antioxidant);
- **Custom packaging** (100 mL-1000 L) available upon request (food-grade packaging for flavor use, antioxidant-free option for synthesis).

#### 7. Safety & Handling

- The product is a skin sensitizer, severe eye irritant and combustible viscous liquid; avoid undiluted eye/skin contact, and keep away from open flame and high temperature.
- **Routine Handling:** Wear nitrile rubber gloves and chemical safety goggles (mandatory); operate in a well-ventilated area; wash hands thoroughly with soap and water after use.
- **Large-Scale Handling:** Wear a lab coat/protective clothing and a half-face respirator with organic vapor cartridge; use local exhaust ventilation to reduce vapor concentration; avoid splash and aerosol generation when handling the viscous liquid.