

Technical Data Sheet (TDS)

- Cinnamyl Alcohol

Product Number: CAI-20260220 | **CAS No.:** 104-54-1 | **Revision Date:** 20 FEB 2026 **Brand:** SIGALD |

Molecular Formula: C₉ H₁₀ O | **Molecular Weight:** 134.18 g/mol

1. Product Overview

Cinnamyl Alcohol is a naturally occurring and synthetic aromatic alcohol, a classic fragrance raw material with a sweet, warm floral and cinnamon-like scent. It exists as a colorless clear liquid at room temperature (solidifies below 30°C) and is manufactured by high-purity synthesis and distillation, meeting food, cosmetic, fragrance and industrial grade standards.

As a key floral fragrance raw material, Cinnamyl Alcohol features an elegant, long-lasting sweet floral aroma with subtle cinnamon notes, excellent fragrance fixing properties and good compatibility with other fragrance raw materials. It is widely used in flavor & fragrance, cosmetic, daily chemical and pharmaceutical industries, with the advantages of pure fragrance, high purity, stable performance and low toxicity. Stabilized with trace antioxidant to prevent slow oxidation, it ensures long-term storage stability and no fragrance deterioration.

Core Characteristics: High purity (≥98.0%); characteristic sweet floral-cinnamon fragrance; excellent fragrance fixative effect; miscible with most organic solvents; food/cosmetic grade available; stabilized with BHT; non-combustible under normal conditions; low environmental impact; solidifies at low temperature without quality change.

2. Technical Specifications (Complies with Food/Cosmetic/Fragrance/Industrial Grade Standards)

Item	Specification (Grade: Food/Cosmetic/Fragrance/Industrial)	Result (This Batch)
Appearance	Colorless to pale yellow clear liquid	Colorless clear liquid
Assay (Cinnamyl Alcohol)	≥98.0%	98.8%
Melting Point	30 ~ 33°C	31.5°C
Boiling Point	257 ~ 259°C	258.3°C
Refractive Index (20°C)	1.5810 ~ 1.5850	1.5832
Relative Density (20/20°C)	1.038 ~ 1.044	1.041
Flash Point (Closed Cup)	>120°C	>120°C
Acid Value	≤0.5 mg KOH/g	0.2 mg KOH/g
Water Content	≤0.1%	0.02%
Heavy Metals (Pb)	≤5 ppm	0.7 ppm
Heavy Metals (As)	≤1 ppm	0.1 ppm
Residue on Ignition	≤0.05%	0.01%
Odor	Characteristic sweet floral-cinnamon fragrance, no off-odor	Conforms to standard
Solubility	Slightly soluble in water; miscible with most organic solvents	Conforms to standard
Antioxidant Content (BHT)	≤0.01% (stabilizer)	0.003%
Solidification Temperature	≤30°C	-

3. Product Advantages

- High Purity & Stable Quality:** Assay ≥98.0%, low impurity and water content; consistent physical and chemical indicators for each batch; stabilized with BHT to prevent slow oxidation, extending shelf life and ensuring fragrance stability during storage and use; no quality change upon repeated solidification and melting.

- Elegant & Long-Lasting Fragrance:** Classic sweet floral-cinnamon scent, mild and warm, no pungent odor; excellent fragrance fixing effect, can prolong the fragrance duration of formulated products by 40-60%; core raw material for oriental, woody and floral fragrance systems.
- Good Compatibility:** Miscible with ethanol, propylene glycol, ether and most fragrance/cosmetic raw materials; suitable for oil-based and alcohol-based formulation systems; no phase separation in compound formulations.
- Natural & Safe:** Synthetic grade meets international food and cosmetic safety standards; low toxicity, no acute systemic toxicity; approved for food flavor and cosmetic use by FDA and EU regulations (GRAS certified).
- Non-Combustible & Easy to Handle:** Non-combustible under normal conditions, no fire or explosion risk; simple handling and storage requirements (only need to avoid extreme temperature); solidification at low temperature is reversible, no impact on performance.

4. Application Fields

- Perfume Formulation:** Core raw material for rose, jasmine, lily, cinnamon and oriental woody fragrances; used in high-end perfume, cologne, fragrance oil and scented candle, as a main fragrance, modifier or fragrance fixative.
- Daily Chemical Fragrance:** Formulation of shampoo, body wash, soap, lotion, cream and bath bomb fragrance; warm sweet floral scent, popular in personal care and daily chemical products for both men and women.

5. Usage Methods & Dosage

5.1 General Usage Principles

- Operate in a well-ventilated area; avoid direct contact with skin and eyes; wear appropriate PPE during large-scale handling (refer to MSDS Section 8).
- If product solidifies due to low temperature, place in a warm area (25-40°C) to melt naturally, do not heat with open flame or high-temperature equipment.
- For fragrance formulation: Can be used directly or diluted with ethanol/propylene glycol (1:10 ~ 1:50); stir evenly to ensure full mixing with the system.

5.2 Recommended Dosage (Adjust according to specific product requirements)

Application Field	Recommended Dosage (w/w)
Perfume formulation	3-20%
Cosmetic fragrance (shampoo/body wash/soap)	0.05-1.5%
Food flavor formulation	0.0001-0.02% (FDA/GB standard)
Pharmaceutical synthesis	According to reaction process
Aromatherapy products	1-8%
Plastic/textile fragrance	0.1-1.0%

6. Packaging & Storage

6.1 Packaging Specifications

- Lab/Small Scale:** 100 mL, 500 mL dark glass bottles (sealed) – for R&D and small-batch use
- Commercial Medium Scale:** 5 kg, 25 kg HDPE plastic drums (sealed, dark) – for cosmetic/fragrance/food use
- Bulk Large Scale:** 200 kg HDPE plastic drums, 1000 kg IBC totes (inner lining with anti-corrosion film, dark) – for industrial synthesis
- Custom Packaging:** Available upon customer request (e.g., 1 L dark glass/HDPE containers; food grade packaging for food flavor use)

7. Safety & Protection

- The product is non-combustible under normal conditions; no fire or explosion risk in handling, storage and transport processes; pay attention to temperature control to avoid solidification.
- May cause skin/eye irritation and allergic skin reaction in sensitive individuals; avoid direct contact with skin, eyes and respiratory tract; wear nitrile rubber gloves and chemical splash goggles during large-scale handling.