

Technical Data Sheet (TDS)

- Amylcinnamyl Alcohol

Product Name: Amylcinnamyl Alcohol **English Name:** Amylcinnamyl Alcohol **CAS Number:** 101-85-9
MDL Number: MFCD00002915 **Formula:** C₁₄H₂₀ O **Molecular Weight:** 204.31 g/mol **Revision Date:** 25 FEB 2026

1. Product Overview

Amylcinnamyl Alcohol (CAS 101-85-9) is a synthetic aromatic alcohol with a mild, sweet jasmine-like floral fragrance combined with soft woody notes. It is a high-value raw material in the fragrance and flavor industry, featuring excellent thermal stability, long-lasting fragrance retention and good compatibility with other fragrance ingredients. This product is manufactured in accordance with international industrial standards with high purity (≥98.0%), consistent physical and chemical properties, and compliant with IFRA, EU Cosmetics Regulation and China GB 2760 standards. It is widely used in cosmetic formulation, household product fragrance, food flavor and fine chemical synthesis, with safe and reliable application performance.

Core Characteristics: High purity (≥98.9%); mild jasmine-woody floral fragrance; good solubility in organic solvents; excellent thermal stability; compliant with international fragrance/flavor safety standards; long shelf life.

2. Technical Specifications (Complies with Industrial Standard)

Item	Specification
Appearance	Colorless to pale yellow clear viscous liquid
Assay (Purity)	≥ 98.0% (GC)
Boiling Point	140-145°C (10 mmHg)
Refractive Index (25°C)	1.5420-1.5480
Relative Density (25/25°C)	0.958-0.964
Acid Value	≤ 0.5 mg KOH/g
Water Content	≤ 0.3% (Karl Fischer)
Heavy Metals (Pb)	≤ 5 ppm
Heavy Metals (As)	≤ 1 ppm
Solubility (95% Ethanol, 25°C)	1:2 soluble
Solubility in Water	<0.05g/100mL (25°C)
Viscosity (25°C)	40-60 mPa·s
Flash Point	≥ 145°C (Closed Cup)
Odor	Mild sweet jasmine-like floral fragrance with woody notes (no off-odor)

3. Product Advantages

- High Purity & Stable Quality:** Industrial grade with batch-tested purity ≥98.9%, low impurity content, consistent fragrance and physical properties without batch variation.
- Pleasant & Long-Lasting Fragrance:** Mild jasmine-woody floral scent, slow volatilization rate, long-lasting fragrance retention (8-12 hours in finished products), ideal for long-acting fragrance formulations.
- Excellent Compatibility:** Soluble in most organic solvents (ethanol, propylene glycol, vegetable oil), compatible with all common fragrance/flavor raw materials, no adverse reactions in formulation.
- Good Thermal Stability:** Resistant to high temperature (≤100°C) during processing, no fragrance loss or decomposition, suitable for high-temperature production processes (candle, plastic, coating).
- Multi-Field Application:** Complies with food, cosmetic and household product safety standards, suitable for fragrance formulation, flavor modification and fine chemical synthesis.
- Long Shelf Life:** 24-month shelf life under specified storage conditions, no obvious fragrance loss or degradation after opening (with proper sealing).



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

4. Application Fields

4.1 Fragrance Industry

- **Cosmetic Fragrance:** Perfume, eau de toilette, body lotion, shower gel, shampoo, conditioner, hand cream (formulation ratio 0.2-6.0%).
- **Household Product Fragrance:** Laundry detergent, fabric softener, dish soap, air freshener, candle, incense, furniture polish (formulation ratio 0.05-3.0%).
- **Industrial Fragrance:** Plastic product fragrance, water-based coating fragrance, paper product fragrance, textile softener fragrance (formulation ratio 0.01-2.0%).

4.2 Flavor Industry

- Food flavor: Bakery, candy, pastry, beverage, ice cream (added in accordance with China GB 2760-2021, formulation ratio 0.0005-0.005%).
- Feed flavor: Small amount added for feed flavor modification (compliant with feed additive safety standards).

5. Usage Methods & Dosage

5.1 General Usage Principles

- Operate in a well-ventilated area; avoid breathing vapor and direct contact with skin/eyes.
- For aqueous system formulation, dissolve in ethanol/propylene glycol first (solvent:amylcinnamyl alcohol = 2:1) for uniform mixing; stir evenly.
- Strictly control the dosage in food and cosmetic applications in accordance with national and international standards (IFRA, GB 2760).
- Avoid mixing with strong oxidizing agents and concentrated acids in the formulation process to prevent product degradation.

5.2 Recommended Dosage (by Industry)

表格

Industry	Application Scenario	Recommended Dosage (Formulation Ratio)
Cosmetics	Perfume/eau de toilette	1.0-6.0%
Cosmetics	Shampoo/body lotion/hand cream	0.2-1.5%
Household Products	Laundry detergent/air freshener	0.05-3.0%
Food Flavor	Bakery/candy/beverage	0.0005-0.005%
Industrial Fragrance	Plastic/coating/paper	0.01-2.0%
Chemical Intermediate	Synthesis reaction	10-60% (process ratio)

6. Packaging & Storage

- **Cosmetic/Food Grade:** 1L/5L/10L light-proof HDPE plastic drums; 500mL/1L brown glass bottles (small package for laboratory/formulation use).
- **Industrial Grade:** 25L/50L light-proof HDPE plastic drums; 200L iron drums with inner plastic lining (bulk package for industrial production).
- **High-Purity Reagent Grade:** 100mL/500mL brown glass bottles (sealed with teflon stopper).
- **Custom Packaging:** Small package (100mL/250mL) and large package (1000L IBC totes) available upon customer request.

7. Safety & Protection

1. The product causes skin and eye irritation; harmful to aquatic life with long-term effects; no other acute/chronic toxic hazards.
2. Wear **nitrile rubber gloves, chemical safety goggles and organic vapor cartridge respirator** during handling; avoid inhalation of vapor and direct contact with skin/eyes.
3. Do not eat, drink or smoke during operation; wash hands and face thoroughly with soap and water after handling.
4. In case of eye contact: Rinse thoroughly with running water for 15-20 minutes and consult a doctor immediately.