

## Technical Data Sheet (TDS)

### - Amyl Cinnamal

**Product Name:** Amyl Cinnamal **English Name:** Amyl Cinnamal **CAS Number:** 122-40-7 **MDL Number:** MFCD00006856 **Formula:** C<sub>14</sub>H<sub>18</sub> O **Molecular Weight:** 202.29 g/mol **Revision Date:** 28 FEB 2026

### 1. Product Overview

Amyl Cinnamal (CAS 122-40-7) is a synthetic aromatic aldehyde with a strong, sweet jasmine-like floral fragrance. It is a key raw material in the fragrance and flavor industry, featuring stable physical and chemical properties, long-lasting fragrance, and good compatibility with other fragrance raw materials. This product is manufactured in accordance with international industrial standards, with high purity (≥98.0%) and consistent fragrance quality, suitable for formulation of cosmetics, household products, food flavors and industrial fragrances. It complies with IFRA, EU Cosmetics Regulation and China GB 2760 standards, with clear application dosage limits and safety guidelines.

**Core Characteristics:** High purity; strong jasmine-like floral fragrance; good solubility in organic solvents; stable under normal storage conditions; compliant with international fragrance and flavor safety standards.

### 2. Technical Specifications (Complies with Industrial Standard)

Item	Specification
Appearance	Pale yellow to light orange clear liquid
Assay (Purity)	≥ 98.0% (GC)
Boiling Point	260-270°C
Refractive Index (25°C)	1.5500-1.5560
Relative Density (25/25°C)	0.950-0.956
Acid Value	≤ 1.0 mg KOH/g
Peroxide Value	≤ 10 meq/kg
Heavy Metals (Pb)	≤ 5 ppm
Heavy Metals (As)	≤ 1 ppm
Water Content	≤ 0.5% (Karl Fischer)
Solubility (95% Ethanol, 25°C)	1:5 soluble
Solubility in Water	Slightly soluble (<0.1g/100mL)
Viscosity (25°C)	8-12 mPa·s
Odor	Strong sweet jasmine-like floral fragrance (no off-odor)

### 3. Product Advantages

- High Purity & Stable Quality:** Industrial grade with purity ≥98.7% (batch tested), low impurity content, consistent fragrance and physical properties.
- Unique Floral Fragrance:** Strong and long-lasting jasmine-like floral fragrance, the core raw material for jasmine, gardenia and other floral fragrance formulations.
- Good Compatibility:** Soluble in most organic solvents (ethanol, propylene glycol, vegetable oil), compatible with other fragrance and flavor raw materials, no adverse reaction in formulation.
- Wide Application:** Complies with international safety standards for food, cosmetic and household product use, suitable for multiple industrial fields.
- Long Shelf Life:** 18-month shelf life under specified storage conditions, no obvious fragrance loss or degradation.
- Customizable Grades:** Food grade, cosmetic grade and industrial grade available according to customer requirements, meeting different application standards.

### 4. Application Fields

#### 4.1 Fragrance Industry

- Cosmetic Fragrance:** Perfume, eau de toilette, body lotion, shower gel, shampoo, conditioner (formulation ratio 0.1-5.0%).
- Household Product Fragrance:** Laundry detergent, fabric softener, dish soap, air freshener, candle, incense (formulation ratio 0.05-2.0%).



# 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>

- **Industrial Fragrance:** Plastic product fragrance, coating fragrance, paper product fragrance (formulation ratio 0.01-1.0%).

## 4.2 Flavor Industry

- Food flavor: Bakery, candy, beverage, ice cream, pastry (added in accordance with national food additive dosage limits, e.g., China GB 2760-2021, formulation ratio 0.001-0.01%).
- Feed flavor: Small amount added for feed flavor modification (compliant with feed additive safety standards).

## 4.3 Other Fields

- Daily chemical raw material: Fragrance modifier for hand sanitizer, wet wipe, mouthwash (low dosage).
- Laboratory reagent: Analytical standard reagent for fragrance and flavor detection (high-purity grade  $\geq 99.0\%$ ).

## 5. Usage Methods & Dosage

### 5.1 General Usage Principles

- Operate in a well-ventilated area; avoid breathing vapors and direct contact with skin/eyes.
- For aqueous system formulation, dissolve in ethanol/propylene glycol first (solvent:amyl cinnamal = 5:1) for uniform mixing.
- Strictly control the dosage in food and cosmetic applications, in accordance with national and international relevant standards (e.g., IFRA, GB 2760).
- Avoid mixing with strong oxidizing agents and acids in the formulation process to prevent product degradation.

### 5.2 Recommended Dosage (by Industry)

Industry	Application Scenario	Recommended Dosage (Formulation Ratio)
Cosmetics	Perfume/eau de toilette	0.5-5.0%
Cosmetics	Shampoo/body lotion/shower gel	0.1-1.0%
Household Products	Laundry detergent/air freshener	0.05-2.0%
Food Flavor	Bakery/candy/beverage	0.001-0.01%
Industrial Fragrance	Plastic/coating/paper	0.01-1.0%

## 6. Packaging & Storage

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

## 7. Safety & Protection

1. The product may cause allergic skin reactions and serious eye irritation; harmful to aquatic life with long-term effects.
2. Wear **nitrile rubber gloves, chemical safety goggles and organic vapor cartridge respirator** during handling; avoid inhalation of vapors 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.