

Technical Data Sheet (TDS)

- Common Jasmin Orange Concrete

Revision Date: 28 February 2026 **Product Number:** JOC-20260228 **CAS Number:** 90045-43-5 **Main Components:** Linalool, Limonene, Methyl Anthranilate, Geraniol **Source:** Solvent extraction from fresh *Citrus aurantium* var. amara flowers

1. Product Overview

Common Jasmin Orange Concrete is a high-quality natural floral extract obtained by solvent extraction of fresh Jasmin Orange (Daidai) flowers. It exists as a waxy solid at room temperature, with a rich, fresh and long-lasting characteristic floral aroma, accompanied by subtle citrus and sweet fruity undertones. As a core raw material in the fragrance industry, it retains the authentic aroma components of Jasmin Orange flowers, and is widely used in high-end perfumes, cosmetics, daily chemicals and food flavors. The product is free of artificial fragrances and colorants, complying with IFRA and cosmetic raw material safety standards.

2. Technical Specifications

Item	Specification (Cosmetic/Fragrance Grade)
Appearance	Dark yellow to orange-brown waxy solid (25°C)
Odor	Characteristic fresh Jasmin Orange floral scent
Acid Value	10.0 - 30.0 mg KOH/g
Ester Value	40.0 - 80.0 mg KOH/g
Melting Point	45 - 55°C
Refractive Index (40°C)	1.4800 - 1.4950
Ash Content	≤ 0.5%
Water Content	≤ 0.5%
Residual Solvent (Hexane)	≤ 500 ppm
Heavy Metals (Pb)	≤ 5 ppm
Heavy Metals (As)	≤ 1 ppm
Solubility	Soluble in ethanol, propylene glycol, vegetable oil; insoluble in water
Flash Point (Open Cup)	≥ 160°C
Stability	Stable at 5-35°C (avoid high temperature >60°C)

3. Product Advantages

- 100% Natural Aroma:** Retains the complete aroma profile of fresh Jasmin Orange flowers, with authentic and layered fragrance.
- High Concentrated:** Rich in active aromatic components, small dosage achieves obvious fragrance effect.
- Good Compatibility:** Melts into liquid at 50-60°C, miscible with most fragrance raw materials, solvents and cosmetic bases.
- Multi-functional:** Suitable for both fragrance formulation and natural color adjustment in cosmetic products.
- Regulatory Compliance:** Meets IFRA, EU REACH and China Cosmetic Safety Technical Specifications (2021).

4. Application Fields

- Perfumes & Fragrances:** High-end perfumes, eau de toilette, colognes; core floral note for citrus-floral fragrance systems.
- Cosmetics:** Facial cream, lotion, shampoo, conditioner, body wash; natural fragrance and mild skin-friendly additive.
- Daily Chemicals:** Air fresheners, fabric softeners, laundry detergents; long-lasting fragrance retention.



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- **Food Flavors:** Food grade (separate specification) for bakery, beverage, candy; natural citrus-floral flavor enhancer.

5. Usage Methods

5.1 Pre-treatment

The product is a waxy solid at room temperature; **heat to 50-60°C in a water bath** (avoid direct heating) to melt into a clear liquid before use.

5.2 Dosage (by weight)

- Perfumes & high-end fragrances: 2.0 - 10.0%
- Cosmetics (skin care/hair care): 0.1 - 2.0%
- Daily chemicals: 0.5 - 5.0%
- Food flavors (food grade): 0.01 - 0.5%

5.3 Mixing Method

1. Melt the concrete and the base oil/solvent (e.g., ethanol, propylene glycol) at 50-60°C respectively.
2. Slowly add the melted concrete to the base system under stirring.
3. Stir continuously for 10-15 minutes to ensure complete dispersion and dissolution.
4. Cool down to room temperature naturally.

6. Packaging & Storage

Packaging Specifications

- 1 kg/aluminum foil bag (small batch/fragrance formulation)
- 5 kg/tin can (sealed, nitrogen-filled)
- 20 kg/stainless steel drum (bulk, nitrogen-filled)
- Custom packaging available (food grade with nitrogen protection)

Storage Conditions

- **Storage Temperature:** 5-25°C, cool, dark and dry warehouse.
- **Key Precautions:** Keep sealed and filled with nitrogen to prevent oxidation and aroma loss; avoid direct sunlight and high temperature (>30°C, easy to melt and oxidize).
- **Shelf Life:** 24 months (unopened, nitrogen-filled, specified conditions); 6 months after opening (sealed, refrigerated at 5-10°C).

Transportation

- Classified as **non-hazardous goods**; transport by closed vehicles with temperature control (5-30°C).
- Avoid collision, extrusion (to prevent packaging damage) and extreme temperature during transit.

7. Safety & Protection

- The product is mild, but undiluted melted concrete may cause mild skin irritation in sensitive individuals.
- Wear heat-resistant nitrile gloves, safety glasses and heat-insulating gloves during melting and dispensing.
- In case of skin contact: Wipe with vegetable oil first, then rinse with soap and water.
- In case of eye contact: Rinse with plenty of running water for 10-15 minutes; consult a doctor if irritation persists.
- Do not ingest; if accidentally swallowed, rinse mouth with water and seek medical advice.

8. Quality Assurance

- Manufactured in accordance with ISO 9001 (Quality Management) and ISO 14001 (Environmental Management).
- Complies with IFRA fragrance ingredient standards and ISO 9235 (Natural Essential Oils and Concretes - General Test Methods).
- Each batch is accompanied by a Certificate of Analysis (COA); provide technical support for melting and formulation blending.