

Technical Data Sheet (TDS)

Issued Date: February 18, 2026

Document No.: TDS-FARN-260218

Product: Farnesol |

CAS: 4602-84-0

1. Product Identification

- **IUPAC Name:** (2E,6E)-3,7,11-Trimethyldodeca-2,6,10-trien-1-ol
- **Synonyms:** (E,E)-Farnesol; 3,7,11-Trimethyl-2,6,10-dodecatrien-1-ol
- **EC No.:** 225-004-1 | **Molecular Formula:** C₁₅ H₂₆ O | **MW:** 222.37
- **Use:** Fragrance ingredient, flavoring agent, and cosmetic active (skin conditioning).

2. Key Physical & Chemical Properties

Property	Value	Test Method
Appearance	Colorless to pale yellow liquid	Visual
Odor	Floral, lily, balsamic, woody	Olfactory
Assay (GC)	≥ 98.0%	GC-FID
Relative Density (20/20°C)	0.880–0.888	Pycnometry
Refractive Index (20°C)	1.483–1.489	Refractometry
Acid Value	≤ 1.0 mg KOH/g	Titration
Peroxide Value	≤ 10.0 meq/kg	Iodometric
Water Content	≤ 0.10%	Karl Fischer
Flash Point (Closed Cup)	≥ 110°C	ASTM D93
Boiling Point	~263°C (decomposes)	ASTM D86
Solubility	Soluble in ethanol, propylene glycol; slightly soluble in water	Solubility test

3. Application & Usage

- **Recommended Use Levels:** 0.01–2.0% (cosmetics); 0.5–10.0% (fine fragrances); 0.001–0.01% (food flavors).
- **Applications:**
 - Fragrances: Blends well with rose, jasmine, and woody accords.
 - Cosmetics: Moisturizers, anti-aging products, hair care (conditioning).
 - Flavors: Fruit, berry, and floral flavor formulations.
- **Benefits:** Natural floral note, skin conditioning properties, good stability in neutral formulations.

4. Storage & Handling

- **Storage:** 5–25°C, tightly sealed, in a cool/dry place away from light and heat. **Inert gas blanketing recommended** to prevent oxidation.
- **Shelf Life:** 18 months from manufacture (unopened, proper storage).
- **Handling:** Avoid prolonged exposure to air; use in well-ventilated areas.

5. Regulatory Compliance

- **REACH:** Registered; Annex XVII compliant.
- **CosIng:** Listed (INCI: Farnesol).
- **FEMA:** GRAS (FEMA 2478) for food use.



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- **FDA:** Approved for food and cosmetic use (21 CFR).

A large, faded version of the Neway Sinophc Tech logo, consisting of the stylized 'N' and the text '纳维盈医化科技' and 'NEWAY SINOPHC TECH' below it.

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