



JOHN KELLYS (LONDON) LTD

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● Essential Oils ● Aromatic Chemicals ● Oleoresins ● Fragrances ● Flavors ● Functional ingredients

TECHNICAL DATA SHEET

PRODUCT: Star Anise Oil

JK LOT NUMBER: 38103

1. Product Identification

- Product Name: Star Anise Oile
- Botanical Name: Illicium verum Hook. f.
- CAS No.: 8007-70-3 / 68952-43-2
- EINECS No.: 283-518-1
- FEMA No.: 2096
- Synonyms: Aniseed Star Oil, Chinese Star Anise Oil, Illicium Verum Oil
- Extraction Method: Steam distillation from fresh leaves / ripe fruits

2. Specifications

2.1 Appearance & Organoleptic

- Appearance: Colorless to pale yellow clear liquid
- Odor: Characteristic sweet-spicy, anise-like aroma
- Taste: Spicy-sweet, typical anise flavor
- Solubility: Soluble in alcohol, ether, chloroform, most fixed oils; slightly soluble in water

2.2 Physical & Chemical Properties

Item	Standard	Test Method
Relative density (20°C)	0.979 – 0.985	GB/T 11540
Refractive index (20°C)	1.5520 – 1.5560	GB/T 14454.4
Optical rotation (20°C)	-2° to +2°	Polarimetry
Flash point	>93°C	Closed Cup
Boiling point	232–234°C	Distillation
Congeaing point	≥15°C	Cooling test

2.2 Main Components (Typical)

- Trans-Anethole: 85–95%
- Estragole (methyl chavicol): 1.0–5.0%
- Linalool: <1.0%
- Cis-Anethole, limonene, terpineol: Minor components.

3. Applications

- Food & Beverage: Flavoring in confectionery, bakery, liqueurs, tea, spices.
- Cosmetics & Perfumery: Fragrance in soap, creams, perfumes.
- Pharmaceuticals: Aromatic stimulant, carminative, flavoring agent.
- Industrial: Raw material for synthesis of anethole, anisaldehyde.

4. HANDLING & STORAGE

- Storage: Keep in tightly sealed containers, cool, dry, dark place
- Temperature: 5–25°C; avoid freezing / excessive heat
- Shelf life: 24 months when properly stored
- Packaging: 5kg, 25kg, 200kg drums (aluminum / HDPE)

5. SAFETY & HANDLING

- Hazards: May cause skin/eye irritation; flammable liquid
- Protection: Wear gloves, goggles; avoid inhalation
- First aid: Rinse skin/eyes with water; seek medical help if needed

This certificate is generated using data provided by our suppliers.

6. REGULATORY COMPLIANCE

- Complies with GB 1886.140, FCC, EMA, IFRA, USP standards.
- Suitable for food, cosmetic, and pharmaceutical use.