



JOHN KELLYS (LONDON) LTD

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

TECHNICAL DATA SHEET

PRODUCT: Eucalyptol Min 99%

JK LOT NUMBER: 38111

1. Product Identification

- Synonyms: 1,8 Cineole, 1,8 Epoxy p menthane, Cajeputol
- CAS No.: 470-82-6
- EINECS No.: 207-426-5
- FEMA No.: 2465
- Molecular Formula: $C_{10}H_{18}O$
- Molecular Weight: 154.25 g/mol
- Natural Source: Mainly from Eucalyptus globulus, Melaleuca, Cinnamomum camphora

2. Physical & Chemical Properties

- Appearance: Colorless to pale yellow mobile liquid
- Odor: Characteristic fresh, camphoraceous, spicy herbal eucalyptus odor
- Specific Gravity (20°C): 0.921 – 0.927
- Refractive Index (20°C): 1.455 – 1.460
- Boiling Point: ~176 °C
- Melting Point: ~1.5 °C
- Flash Point: 49 °C (closed cup)
- Solubility: Practically insoluble in water; soluble in ethanol, ether, oils, propylene glycol

3. Typical Chemical Composition (ISO 4730 compliant)

- Eucalyptol (1,8 Cineole): $\geq 99.0\%$
- Other monoterpenes: $\leq 1.0\%$

4. Quality Specifications

Heavy Metals

- Lead (Pb): ≤ 10 mg/kg
- Arsenic (As): ≤ 2 mg/kg
- Mercury (Hg): ≤ 1 mg/kg
- Cadmium (Cd): ≤ 1 mg/kg

Microbiological

- Total plate count: ≤ 100 CFU/g
- Yeast & mold: ≤ 10 CFU/g
- E. coli, Salmonella, Staphylococcus aureus: Absent in 1 g

5. Stability & Storage

Stability: Stable under normal storage conditions

Storage: Store in cool, dry, well-ventilated area; keep away from heat, flame, oxidizing agents

Shelf Life: Minimum 2 years when properly stored in sealed containers.

6. Applications

- Fragrance & flavoring
- Oral care (toothpaste, mouthwash)
- Aromatherapy & inhalants
- Cosmetics & topical formulations
- Household cleaning & disinfecting products

7. Safety & Handling (Summary)

- Flammable liquid; keep away from ignition sources
- May cause skin/eye irritation
- Avoid inhalation in high concentration
- Not for internal consumption in undiluted form
- In case of eye contact: rinse thoroughly with water