



Black Pepper Oil – Product Specification

Product Information

Parameter	Specification
Product Name	Black Pepper Essential Oil
Botanical Name	<i>Piper nigrum</i>
Common Name	Black Pepper Oil
Plant Part Used	Dried Fruits (Peppercorns)
CAS No.	8006-82-4
EINECS No.	284-524-7
HS Code	3301.29 (Country specific)
Origin	India
Extraction Method	Steam Distillation

Organoleptic Properties

Parameter	Specification
Appearance	Clear to pale yellow or greenish-yellow liquid
Color	Colorless to pale yellow or light green
Odor	Fresh, warm, spicy, woody, peppery, characteristic aroma
Taste	Hot, spicy, pungent (Not for direct consumption)

Physical & Chemical Properties

Parameter	Specification
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Specific Gravity (25°C)	0.860 – 0.890
Refractive Index (20°C)	1.475 – 1.490
Optical Rotation	-25° to +5°
Flash Point	Above 65°C
Solubility	Soluble in alcohol and fixed oils; insoluble in water

Major Chemical Constituents

Component	Typical Range (%)
β-Caryophyllene	20–35
Limonene	15–25
Sabinene	10–20
α-Pinene	5–12
β-Pinene	5–10
Myrcene	2–8
δ-3-Carene	2–8
Linalool	1–5

Quality Standards

- 100% Pure & Natural
 - Steam Distilled
 - No Synthetic Additives
 - No Artificial Fragrance
 - No Mineral Oil
 - Non-GMO
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- Free from Heavy Metals (within permissible limits)
 - Free from Pesticide Residues (as per importing country regulations)



Microbiological Parameters

Parameter	Specification
Total Plate Count	Within acceptable limits
Yeast & Mold	Within acceptable limits
<i>Escherichia coli</i>	Absent
<i>Salmonella</i>	Absent
<i>Staphylococcus aureus</i>	Absent

Packaging

- 1 kg Aluminum Bottle
- 5 kg Aluminum Container
- 25 kg HDPE Drum
- 180 kg GI/MS Drum
- Customized packaging available upon request

Storage Conditions

- Store in tightly sealed containers.
- Keep in a cool, dry, and well-ventilated place.
- Protect from direct sunlight, heat, and moisture.
- Keep away from ignition sources.

Shelf Life

24 Months from the date of manufacture when stored under recommended conditions.

Applications

- Food & Beverage Flavoring
- Pharmaceutical Industry
- Nutraceuticals
- Aromatherapy
- Cosmetics & Personal Care



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- Perfumery
- Herbal Formulations

Certifications (Available on Request)

- ISO 22000
- GMP
- HALAL
- FSSAI
- APEDA Registration
- Certificate of Origin (COO)
- Phytosanitary Certificate (where applicable)
- MSDS (Material Safety Data Sheet)
- COA (Certificate of Analysis)
- GC-MS Analysis Report

Country of Origin: India

