



AUSTRALIA NATURAL PRODUCTS

Add: 19 First Avenue, Rodd Point, NSW 2046, Australia

Tel: +61 452 101 623

Email: australianatural.au@gmail.com

Website: www.australianatural.com.au

TECHNICAL DATA SHEET (TDS) BLACK PEPPER OIL (Piper Nigrum (Pepper) Fruit Oil)

1. PRODUCT IDENTIFICATION & OVERVIEW

Product Name	Black Pepper Oil
INCI Name	Piper Nigrum (Pepper) Fruit Oil
Botanical Name	Piper nigrum L.
CAS Number	8006-82-4 / 84929-41-9
Description	100% Pure and Natural essential oil obtained by steam distillation of the dried, unripe fruits (peppercorns) of Piper nigrum L., of the Piperaceae family.

2. TECHNICAL & SENSORY PROPERTIES

Appearance	Clear, mobile liquid
Colour	Colourless to pale yellow or greenish-yellow
Odour	Characteristic warm, dry, spicy, and woody-peppery aroma
Relative Density (20/20°C)	0.864 – 0.884
Refractive Index (20°C)	1.478 – 1.488
Optical Rotation (20°C)	-10° to -30°
beta-Caryophyllene Content	20% – 35%
d-Limonene Content	15% – 25%
alpha-Pinene Content	7% – 15%

3. APPLICATIONS & USES

Fragrance & Perfumery	Used in masculine fragrances, spicy colognes, oriental notes, and luxury perfumery formulations to impart a warm, spicy kick.
Flavour & Food Industry	Extensively used as a natural flavoring agent in savory foods, sauces, meats, snacks, and beverage formulations.

Cosmetics & Personal Care	Incorporated into warming massage oils, sports rubs, and balms designed to soothe tired muscles and stimulate circulation.
Aromatherapy & Wellness	Valued for its warming, grounding, and energizing properties in therapeutic blends and emotional support.
Pharmaceutical & Herbal	Utilized in traditional and herbal preparations for its carminative and circulatory-stimulating benefits.

4. STORAGE, PACKAGING & SAFETY

Storage Conditions	Store in cool, dry place in tightly sealed containers, protected from heat and light.
Packaging	1 kg and 5 kg aluminium containers; 25 kg HDPE containers.
Shelf Life	24 months when stored properly in unopened original containers.
Safety & Handling	Avoid contact with eyes and prolonged direct skin contact. Handle in well-ventilated areas. Wear protective gloves.

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