

TECHNICAL DATA SHEET (TDS)
GINGER ESSENTIAL OIL
(Zingiber Officinale Rhizomes Oil)

1. PRODUCT IDENTIFICATION & OVERVIEW

Product Name	Ginger Oil
INCI Name	Zingiber Officinale Rhizomes Oil
Origin	Vietnam / China / India
CAS Number	8007-08-7 / 84696-15-1
EINECS No.	283-634-2
Description	100% Pure and Natural essential oil obtained by steam distillation of fresh rhizomes of Zingiber officinale.

2. TECHNICAL & SENSORY PROPERTIES

Appearance & Color	Clear, mobile liquid; Light yellow to amber
Odor Profile	Warm, spicy, fresh, woody ginger scent
Main Active Component	alpha-Zingiberene (25.0% – 40.0%), ar-Curcumene (5.0% – 15.0%)
Density (20°C)	0.870 – 0.882 g/cm ³
Refractive Index (20°C)	1.488 – 1.498
Optical Rotation (20°C)	-45.0° to -28.0°

3. APPLICATIONS & RECOMMENDED USES

Flavor & Food Industry	Widely used as a natural flavoring agent in beverages, confectionery, sauces, and culinary products.
Fragrance & Cosmetics	Incorporated into oriental fragrances, warming massage oils, hair care, and skincare preparations.
Aromatherapy & Wellness	Valued for its warming, soothing, and digestive-supportive aromatherapeutic benefits.
Recommended Dosage	Flavor formulations: As per quantum satis; Cosmetic & Fragrance: 0.1% – 1.0%.

4. STORAGE, PACKAGING & HANDLING

Packaging Options	1 kg to 5kg aluminum bottle, 25 kg HDPE Drums, 180 kg Galvanized Steel Drums, ISO Tank Containers
Storage Conditions	Store in well-sealed, full containers in a cool, dry, dark area away from heat and direct sunlight.
Shelf Life	36 months when stored properly in unopened original containers.
Safety & Handling	Avoid contact with eyes and prolonged skin contact in pure form. Handle in well-ventilated areas.

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