

TECHNICAL DATA SHEET (TDS)

Product Name	HAZELNUT OIL
Botanical Name	Corylus avellana
CAS #	185630-72-2 ; 84012-21-5
EINECS #	281-667-7
INCI Name	Corylus avellana (Hazel) Nut Oil

Part Used	Nuts
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Pale yellow to bright golden colored liquid
Odour	Almost odourless
Refractive Index	1.462 - 1.472 @ 20°C
Specific Gravity (g/mL)	0.910 - 0.925 @ 20°C
Saponification Value (mgKOH/g)	187 - 197
Peroxide Value (meq O ₂ /kg)	Less than 5.0
Iodine Value (g I ₂ /100g)	85 – 105
Acid Value (mgKOH/g)	Less than 0.50
Free Fatty Acids (% oleic)	Less than 0.25
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	C16:0	4.00 – 9.00
Palmitoleic Acid	C16:1	Maximum 1.00
Stearic Acid	C18:0	1.00 – 4.00
Oleic Acid	C18:1 (n-9)	68.00 – 85.00
Linoleic Acid	C18:2 (n-6)	8.00 – 15.00
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 1.50

MICROBIAL ANALYSIS	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149
Yeast and Mould	< 10 CFU/g	ISO 16212
Candida albicans	ABSENT / 1g	ISO 18416
Escherichia coli	ABSENT / 1g	ISO 21150
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717
Staphylococcus aureus	ABSENT / 1g	ISO 22718

<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Lead: Pb (mg/kg or ppm)	< 10 ppm	na
Arsenic: As (mg/kg or ppm)	< 2 ppm	na
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na

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