

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	

PROPERTIES	SPECIFICATIONS	
Appearance	Pale yellow to bright golden colored liquid	
Odour	Almost odourless	
Refractive Index	1.460 – 1.475 @ 20°C	
Specific Gravity (g/mL)	0.907 – 0.922 @ 20°C	
Saponification Value (mgKOH/g)	186-200	
Peroxide Value (meq O2/kg)	max 10.0	
Iodine Value (g I2/100g)	75 – 120	
Acid Value (mgKOH/g)	MAX 2.0	
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 - 11.0
Palmitoleic Acid	C16:1	Maximum 1.00
Stearic Acid	C18:0	0.5 - 4.0
Oleic Acid	C18:1 (n-9)	60.0 - 83.0
Linoleic Acid	C18:2 (n-6)	3.50 - 21.0
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 1.50



MICROBIAL ANALYSIS	SPECIFICATIONS	<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
HEAVY METAL TESTS	SPECIFICATIONS	STANDARDS
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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