

TECHNICAL DATA SHEET (TDS)

Product Name	WALNUT OIL
Botanical Name	Juglans regia
CAS #	8024-09-07 ; 84012-43-1
EINECS #	281-688-1
INCI Name	Juglans Regia Seed Oil

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

PROPERTIES	SPECIFICATIONS		
Appearance	Pale Yellow to light yellow oily liquid.		
Odour	Walnut Oil has very little scent characteristic of most carrier oils.		
Refractive Index	1.450 - 1.475		
Specific Gravity (g/mL)	0.910 - 0.926		
Saponification Value (mgKOH/g)	180 - 200		
Peroxide Value (meq O2/kg)	max 5.0		
Iodine Value (g I2/100g)	121 - 141		
Acid Value (mgKOH/g)	2.0 MAX		
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water		

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	C16:0	10.00 – 16.00
Palmitoleic Acid	C16:1 (n-7)	Maximum 1.00
Stearic Acid	C18:0	1.00 – 3.00
Oleic Acid	C18:1 (n-9)	13.00 – 26.00
Linoleic Acid	C18:2 (n-6)	45.00 – 65.00
Alpha-Linolenic Acid	C18:3 (n-3)	9.00 – 15.00



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

HEAVY METAL TESTS	<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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