

TECHNICAL DATA SHEET (TDS)

Product Name	POMEGRANATE SEED OIL
Botanical Name	Punica granatum
CAS #	84961-57-9
EINECS #	284-646-0
INCI Name	Punica Granatum (Pomegranate) Seed oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Pale yellow to golden yellow colored liquid
Odour	Mild nutty, seed-like, fatty odour
Refractive Index	1.513 - 1.525 @ 20°C
Specific Gravity (g/mL)	0.920 - 0.960 @ 20°C
Saponification Value (mgKOH/g)	182 - 192
Peroxide Value (meqO ₂ /kg)	Less than 8.0
Iodine Value (g I ₂ /100g)	90 - 108
Acid Value (mgKOH/g)	Less than 4.0
Free Fatty Acids (% oleic)	Less than 2.0
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	C16:0	1.00 – 4.00
Stearic Acid	C18:0	1.00 – 3.00
Oleic Acid	C18:1 (n-9)	3.00 – 7.00
Linoleic Acid	C18:2 (n-6)	4.00 – 8.00
Punicic Acid	C18:3 (n-5)	70.00 – 85.00

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

<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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