

TECHNICAL DATA SHEET (TDS)

Product Name	ROSEHIP OIL
Botanical Name	Rosa rubiginosa (syn Rosa eglanteria)
CAS #	84603-93-0 ; 84696-47-9 ; 92347-25-6
EINECS #	283-652-0 ; 296-213-3
INCI Name	Rosa Mosqueta / Rosa Rubiginosa (Rose Hip) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Reddish amber to deep red-orange colored liquid
Odour	Characteristic mild odour
Refractive Index	1.467 - 1.487 @ 20°C
Specific Gravity (g/mL)	0.920 - 0.940 @ 20°C
Saponification Value (mgKOH/g)	175 - 210
Iodine Value (g I ₂ /100g)	150 – 190
Peroxide Value (meq O ₂ /kg)	Less than 5.0
Acid Value (mgKOH/g)	Less than 1.0
Moisture (%)	Less than 0.1
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	C16:0	18.00 – 26.00
Stearic Acid	C18:0	8.00 – 12.00
Oleic Acid	C18:1 (n-9)	16.00 – 22.00
Linoleic Acid	C18:2 (n-6)	40.00 – 56.00
Alpha-Linolenic Acid	C18:2 (n-3)	22.00 – 38.00
Arachidic Acid	C20:0	Maximum 1.00

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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