

TECHNICAL DATA SHEET (TDS)

Product Name	APPLE SEED OIL
Botanical Name	Pyrus malus (syn Malus domestica)
CAS #	85251-63-4
EINECS #	286-475-7
INCI Name	Pyrus Malus (Apple) Seed Oil

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Pale yellow to greenish golden colored liquid
Odour	Characteristic mild odour
Refractive Index	1.465 - 1.485 @ 20°C
Specific Gravity (g/mL)	0.910 - 0.940 @ 20°C
Saponification Value	180 - 200
Peroxide Value (meq O₂/kg)	Less than 5.0
Iodine Value (g I₂/100g)	130 - 170
Acid Value (mgKOH/g)	Less than 2.0
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
Palmitic Acid	C16:0	4.00 –
Stearic Acid	C18:0	Maximum
Oleic Acid	C18:1 (n-9)	28.00 –
Linoleic Acid	C18:2 (n-6)	52.00 –
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum
Arachidic Acid	C20:0	Maximum

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<u>MICROBIAL ANALYSIS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Aerobic Mesophilic Bacterial	< 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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