

TECHNICAL DATA SHEET
XIMENIA AMERICANA SEED OIL – ORGANIC

Revision: September 2026

1. PRODUCT IDENTIFICATION

Product Name	Ximenia Americana Seed Oil – Organic
INCI Name	Ximenia Americana Seed Oil
Botanical Name	Ximenia americana
Plant Part Used	Seed
Country of Origin	Zimbabwe
HS Code	1515.90.90
Recommended Use	Cosmetic and personal-care formulations

2. DESCRIPTION & FUNCTION

A rich, bright yellow, viscous African lipid oil produced from the seeds of *Ximenia americana*. The oil has a distinctive long-chain fatty-acid profile and is suitable as an emollient and conditioning ingredient in cosmetic and personal-care formulations.

3. PROCESSING

Extraction	First mechanical cold pressing below 60°C
Further Treatment	Successive physical filtration; no solvents or chemicals
Additives / Preservatives	None

4. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Viscous liquid
Colour	Bright yellow
Odour	Slight characteristic; gentle scent
Specific Gravity (20°C)	0.91 – 0.920
Refractive Index	1.46 – 1.50

5. TYPICAL FATTY ACID PROFILE

Oleic Acid (C18:1)	35 – 45%
Ximeninic Acid (C18:1)	17 – 22%
Linoleic Acid (C18:2)	< 2%

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α -Linolenic Acid (C18:3)	< 1%
Erucic Acid (C22:1)	< 2%
Nervonic Acid (C24:1)	3 – 5.5%
Ximenic Acid (C26:1)	4 – 5.5%
Octacosenoic Acid (C28:1)	11 – 13%
Palmitic Acid (C16:0)	< 2%
Stearic Acid (C18:0)	< 1%
Lignoceric Acid (C24:0)	< 2%
Cerotic Acid (C26:0)	1.5 – 3%
Montanic Acid (C28:0)	< 2%

Typical profile only; natural variation occurs between batches.

6. QUALITY PARAMETERS

Peroxide Value	Maximum 15 meq O ₂ /kg; refer to current COA
Acid Value	Maximum 10 mg KOH/g; refer to current COA
Free Fatty Acids	Maximum 5%; refer to current COA
Moisture	< 0.1%
Saponification Value	170 – 190 mg KOH/g
Iodine Value	130 – 157 g I ₂ /100 g

7. STORAGE & SHELF LIFE

Shelf life: 24 months from date of manufacture when stored in sealed original containers under recommended conditions. Store in a dry place, protected from light and heat, preferably below 20°C. Natural cloudiness, crystallisation or wax sediment may occur during storage; gentle warming and mixing will restore a homogeneous appearance.

8. CERTIFICATION & STATUS

Organic Status	Certified organic
Certification	Applicable organic certification supplied on request
GMO Status	See current product declaration
Allergen Status	See current product allergen declaration

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Composition

100% plant-derived lipid oil; no added preservatives

9. TRACEABILITY

Full batch traceability is maintained. Routine batch testing includes peroxide value, acid value / free fatty acid and microbiology. A representative COA may be supplied for technical evaluation; commercial orders include the corresponding batch-specific COA.

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