

# Technical Data Sheet

## INCA JOJOBA OIL GOLD

100% Jojoba Seed Oil

<b>INCI (EU):</b>	SIMMONDSIA CHINENSIS SEED OIL
<b>CTFA Name:</b>	Simmondsia Chinensis (Jojoba) Seed Oil
<b>Other Names:</b>	Buxus Chinensis Oil
<b>CAS-No.:</b>	61789-91-1 (US)   90045-98-0 (EU)
<b>EC No.:</b>	289-964-3

**Production:** Cold pressing of the seeds of the Jojoba shrub

**Chemical and physical properties:** Jojoba oil is technically a **liquid wax**, composed almost entirely ( $\approx 97\%$ ) of wax esters formed from monounsaturated, long-chain fatty acids and alcohols with high molecular weights (C16–26). Most of these wax esters ( $\approx 83\%$ ) consist of C20 and C22 unsaturated acids and alcohols. Minor components: Free fatty acids (C16–C24) and free alcohols (C16–C26), each  $\approx 1\%$  of the total composition; trace amounts ( $< 0.5\%$ ) of mixed tocopherols and free sterols.

Due to its unique wax ester structure, Jojoba oil is exceptionally **resistant** to oxidation and remains chemically **stable** for years, distinguishing it from most conventional vegetable oils (CTFA).

**Appearance/form/odor:** At temperatures above **10.6 °C**, Jojoba oil appears as a clear, transparent liquid wax with a golden color. Below this point, a slight haze or opacity may occur due to the partial solidification of phospholipids. At **7 °C and lower**, the product solidifies into wax. Upon reheating, the solid wax returns to its liquid state without any loss of quality. Jojoba oil has a **light, fatty odor** characteristic of natural waxes.

### Chem.-Phys. Parameters

Parameter	Unit	Specification Range	Method
Specific Gravity (d25/25)	g/ml	0.860-0.870	ISO 6883:2017-05
Refractive Index	$n_D$ at 40°C	1.450-1.470	ISO 6320:2017-07
Acid Value	mg KOH/g	max 1.0	ISO 660:2009-10
Peroxide Value	meq O <sub>2</sub> /kg	max 5.0	ISO 3960:2017-05
Iodine Value	g I <sub>2</sub> /100g	82-87	ISO 3961:2018-08
Saponification Value	mg KOH/g	88-96	ISO 3657:2013-12
Colour	Gardner	max 9	ISO 15305:1998-09
Total Plate Count	cfu/g	< 100	CTFA-M1, Ph. Eur.
Yeast	cfu/g	< 100	
Mold	cfu/g	< 100	

### Fatty Acid Methyl Ester Composition (ISO 12966-2:2017-08)

Parameter		Specification Range
Palmitic Acid	C16:0	< 3.0 %
Palmitoleic Acid	C16:1	< 1.0 %
Oleic Acid	C18:1	5-15 %
Gadoleic Acid	C20:1	< 65-80 %
Behenic Acid	C22:0	< 1.0 %
Erucic Acid	C22:1	10-20 %
Nervonic Acid	C24:1	< 3.0 %
Other		< 3.0 %

**The values comply with DAC/NRF (German Drug Codex).**

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31832 Springe  
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**Suggested Use:** In cosmetics and personal care products the product functions as an emollient and conditioning agent.

**Shelf Life and Storage:** The product is stable for a minimum of 36 months under standard storage conditions. The product should be stored in tightly closed containers, protected from light and at temperatures between 7–25 °C, away from heating. Under these conditions, the oil remains within specification and safe for intended use.

**The product complies with requirements of the German Drug Codex (DAC) and Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.**

The product is

- animal-free/vegan
- BSE/TSE-free
- not tested on animals
- non-GMO
- Halal and kosher
- NATRUE approved
- COSMOS approved

**Respective statements/regulatory information available on request.**

*All information provided here is for informational purposes only and without guarantee. It does not relieve the buyer of the responsibility to conduct their own research and analysis or to verify the suitability of the product for the intended use. The buyer is solely responsible for compliance with legal regulations. The values given are subject to natural change and are published here to the best of our knowledge and belief.*