

HYDRARGAN

Deodorized argan oil for cosmetology

INCI name:

Argania Spinosa Kernel Oil

Description:

The Argan Tree (*Argania Spinosa*) is a specie growing only in the south-east of Morocco. It can have a height of around 10 meters and it can live from 150 to 200 years. It has thorns, with big trunks. The leaves are small, from around 2 to 4 centimeters and its flowering is in April. The Argan is the second most common species in Morocco

It is particularly resistant to the difficult climatic conditions in this region and is the last barrier before the desert. The argan forest covers more than 800,000 ha and contains 20 million trees. It resembles an olive tree and produces small yellow fruits which become brown on ripening. The argan forests have been recognized by the UNESCO as a Biosphere Reserve.

The oil extracted from the kernel of the fruit has been used by local populations for centuries for culinary applications. Berber women use this oil for skin, hair and nail care and can be found in hundreds of different traditional beauty recipes, thanks to its properties to reinforce hydration and its high content in antioxidants. Since the last 2 or 3 years, it has become an important cosmetic active ingredient, because it is a natural source of vitamin E, with 80% content in Essential Fatty Acids.



Extraction Process:

Hydrargan is extracted only using mechanical cold pressure on the stone of the fruit, without any chemical implied process. After a decantation route, the oil is filtered. Thanks to our exclusive technique, the product undergoes to a process of deodorization, resulting in a **pure, ecological, chemical-free and odor-free** cosmetic active ingredient.

The raw material comes from biological-controlled fields, and it is produced under Ecocert norms ISO 65 (EN 45011)

Composition:

Fatty Acids:

- Saturated Fatty Acids: 15 – 21,5%
- Mono-Unsaturated Fatty Acids: 45 – 55%
- Poly-Unsaturated Fatty Acids: 30 – 36%

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Other components:

- Sterols: 130 - 230 mg/100 g
- Tocopherols 60 – 90 mg/100 g:
 - o 69% alfa-tocopherol
 - o 16% beta-tocopherol
 - o 13% Gamma-tocopherol
 - o 2% Delta-tocopherol

| Characteristics | |
|-----------------------------|--------------------------------|
| Appearance | Yellow liquid oil |
| Odor | Sweet |
| Density (15°C) | 0.90 – 0.950 g/cm ³ |
| Acidity | < 2 mg KOH/Kg |
| Peroxyde index | < 10 |
| Saponification index | 180-195 |
| Composition in Fatty Acids: | |
| Mystiric Acid (C14:0) | < 0.2 |
| Pentadecanoic Acid (C15:0) | < 0.1 |
| Palmitic Acid (C16:0) | 12 – 16 |
| Palmitoleic Acid (C16:1) | < 0.4 |
| Stearic Acid (C18:0) | 5 – 7 |
| Oleic Acid (C18:1) | 45 – 48 |
| Linoleic Acid (C18:2) | 30 – 36 |
| Linolenic Acid (C18:3) | 0.1 – 0.2 |
| Arachidic Acid (C20:0) | 0.3 – 0.5 |
| Gadoleic Acid (C20:1) | 0.3 – 0.5 |

Effects in Cosmetic Products:



The deficiency in poly-unsaturated fatty acids, usual with aging, provokes the skin dryness and loss of elasticity, causing the wrinkle formations.

The composition of **Hydrargan** provides it with many benefits which are scientifically proved today. Argan oil presents an exceptional percentage of essential fatty acids, the main one is linoleic acid (omega 6, the most essential of all) ensuring the functions of repair and defense of the skin. They stimulate intracellular oxygenation and thus improve the restoration of the hydro-lipidic film by increasing the nutriment content of cutaneous cells and ensuring the indispensable moisture of the skin.

The essential fatty acids fight against drying and the loss of elasticity which promote the appearance of wrinkles. The skin gains suppleness, elasticity and tonicity and becomes more resistant. It is 80% unsaturated and contains eight essential fatty acids including Omega 6, which cannot be produced by the body. It helps prevent loss of

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moisture from the skin. Essential fatty acids also help the formation of prostaglandins, some of which reduce pain and swelling and others improve circulation and lower cholesterol levels and blood pressure

This beneficial action against cutaneous ageing is reinforced by a very high content in Vitamin E (tocopherols) with hydrating and healing properties. Vitamin E protects the cell membranes against lipid oxidation and thus slows down the process of skin ageing. It has twice as much vitamin E as olive oil, which helps neutralize free radicals and prevent skin damage.

In vitro tests show that the kinetics of LDL diene formation with and without the addition of different concentrations of argan oil unsaponifiable fractions, have clear antioxidant effect on LDL (Evidence of hypolipemiant and antioxidant properties of argan oil derived from the argan tree (*Argania spinosa*) - Anas Drissi et al - Clinical Nutrition (2004) 23, 1159–1166)

It contains rare plant sterols, which have anti-inflammatory properties and can help conditions such as arthritis. It also contains saponins, which soften the skin and ease acne and eczema and it restores the skin's water lipid layer, helping to minimize wrinkles.

Once **Hydrargan** is applied to the skin, it will quickly penetrate without leaving a greasy or shiny trace. In fact, its effect is completely the opposite as it leaves the skin soft with an extraordinary sensory feeling. As a body care product, the oil is ideal for massages.

As cosmetic active ingredient, **Hydrargan** will provide:

- ✓ A preventive anti-ageing care, because its excellent anti-free radical effect
- ✓ Improvement and enhance healing of stretch marks thanks to its regenerating ability
- ✓ Sebum regulating action for greasy skins
- ✓ Nutritional effect on dry skin with a tendency to eczema by helping to restore the cutaneous barrier

Hydrargan is most indicated for the following skin care cosmetic treatments:

- Nutritive and smoothing treatments
- Stressed and uncomfortable skins
- Protective treatments, against external aggressions (sun, wind, cold)
- Anti Free Radical, anti-aging, regenerative products
- Non comedogenic. It is absorbed faster than other natural oils by the skin

For hair care, **Hydrargan** can be used at a mask or hair conditioner as it:

- Nourishes and revitalizes the scalp
- Strengthens hair, providing shine, softness and a silky effect

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Dosage – Solubility – Processing

A- DOSAGE:

Recommended dosage is from 3 to 5%.

B- SOLUBILITY:

Lipo-soluble.

C- PROCESSING:

Hydrargan is compatible with most of the raw materials normally used in cosmetics, with a pH range of 5 to 8. Avoid heating over 60°C. Nevertheless, it is the duty of the formulator to make sure of the stability of the formulae with the necessary tests.

It would be preferably incorporated into cosmetic preparations during the oil phase preparation.

Other Data

PRESERVATIVES: None

MICROBIOLOGY: Maximum 50 CFU (not pathogenic)

TOLERANCE: Excellent.

STORAGE: Store refrigerated (4 to 8 °C), dry and away from light.

If original container is opened, to avoid secondary microbiological contamination handle with special care and keep refrigerated.