

PRODUCT DATA SHEET

Argania Spinosa Kernel Oil [Argan Oil] (natural) (pure)

Cat. No.: IAX-700-001

Date: 10-October-2016



NAME:	Argan Oil, from unroasted Argania spinosa kernels. Country of Origin: Morocco.
SOURCE:	Cold pressed from the kernels of the fruit of the argan tree (Argania spinosa).
CAS:	223747-87-3.
FORMULATION:	Natural product, unrefined.
PURITY:	100%.
APPEARANCE:	Clear yellow odourless liquid.
SOLUBILITY:	Soluble in ethanol, hexane or ether.
HANDLING/USE:	Topical application. Food supplement. Solvent aid for lipophilic compounds.
COMPOSITION:	90% fat, of which saturates are ~20% (stearic acid (~5%) and palmitic acid (~15%)), mono-unsaturates (MUFA): ~45% and polyunsaturates (PUFA): ~35%.
SHIPPING:	Ambient.
STORAGE:	Keep in tightly closed container. Store at room temperature (below 25°C) and in a dry place. Protect from light. Do not freeze or refrigerate.
STABILITY:	1 year after receipt as supplied.

General Information:

Argan oil is pressed from the kernels of the fruits from the argan tree (*Argania spinosa* (L.) Skeels; Sapotaceae) that is endemic to southwest Morocco. Cold pressed argan oil is characterized by high levels of linoleic and oleic acids, tocopherols (in particular γ -tocopherol), and minor compounds such as sterols, carotenoids, and squalene. The main fatty acids in these triglycerides, are oleic and linoleic acids (47% and 33%, respectively), as well as omega-6 fatty acids. Saturated fatty acids in the triglycerides of argan oil are stearic and palmitic acid (5.5% and 15.5%, respectively). Minor components of argan oil include polyphenols, qualene, carotenes, triterpene alcohols and sterols (spinasterol, schottenol). Pre-clinical and clinical studies report hypolipidemic, hypocholesterolemic, hypoglycemic and antihypertensive effects of nutritional use of argan oil in addition to its well-documented anti-oxidant and moisturizing effects used for external cosmetic applications.

References:

- [1] *Bioactive compounds and nutritional significance of virgin argan oil--an edible oil with potential as a functional food.* Cabrera-Vique C et al. *Nutr. Rev.* (2012); 70:266
- [2] *Argan oil: Occurrence, composition and impact on human health.* Charrouf Z and Guillaume D Eur. J. Lipid Sci. Technol. (2008); 110:632 REVIEW
- [3] *Phenolic-extract from argan oil (Argania spinosa L.) inhibits human low-density lipoprotein (LDL) oxidation and enhances cholesterol efflux from human THP-1 macrophages.* Berrougui H et al. *Atherosclerosis* (2006); 184:389
- [4] *Evidence of hypolipemiant and antioxidant properties of argan oil derived from the argan tree (Argania spinosa).* Drissi A et al. *Clin. Nutr.* (2004); 23:1159
- [5] *Nutritional intervention study with argan oil in man: effects on lipids and apolipoproteins.* Derouiche A et al. *Ann. Nutr. Metab.* (2005); 49:96
- [6] *Argan (Argania spinosa) oil lowers blood pressure and improves endothelial dysfunction in spontaneously hypertensive rats.* Berrougui H et al. *Br. J. Nutr.* (2004); 92: 921
- [7] *The nutritional benefits of argan oil in obesity risk prevention.* Adlouni A et al. *Atheroscler S.* (2008); 9:137
- [8] *Consumption of argan oil may have an antiatherogenic effect by improving paraoxonase activities and antioxidant status: intervention study in healthy men.* Cherki M et al. *Nutr. Metab. Cardiovasc. Dis.* (2005); 15:352
- [9] *Physicochemical characteristics, nutritional properties, and health benefits of argan oil: a review.* El Abbassi A et al. *Crit. Rev. Food Sci. Nutr.* (2014); 54:1401
- [10] *Therapeutic potential of argan oil: a review.* Monfalouti HE et al. *J. Pharm. Pharmacol.* (2010); 62:1669
- [11] *Argan oil: which benefits on cardiovascular diseases?* Cherki M et al. *Pharmacol. Res.* (2006); 54:1
- [12] *Gamma-tocopherol, the new vitamin E?* Devaraj S and Traber MG *Am. J. Clin. Nutr.* (2003); 77:53
- [13] *The effect of dietary and/or cosmetic argan oil on postmenopausal skin elasticity.* Boucetta KQ et al. *Clin. Interv. Aging.* (2015); 10:339

DISCLAIMER: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING MAY BE EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH. THIS PRODUCT IS FOR RESEARCH USE ONLY (RUO).

MATERIAL SAFETY DATA: This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, inhale or get into the blood stream. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Access to this material must be restricted to personnel, who is appropriately experienced, qualified, competent and properly trained to use it. Material Safety Data Sheet is available upon request.