

# Organic sea buckthorn fruit oil

*Hippophae rhamnoides* - Germany

Organic product certified by COSMOS

## Description:

Latin name:	Hippophae rhamnoides L., Elaeagnaceae
Shades:	This analysis report is also valid for: Conventional/ CO2 extraction
INC (EU)/ botanical name:	HIPPOPHAE RHAMNOIDES FRUIT OIL
CAS Registry Number EU):	225234-03-7
EINECS/ ELINCS:	273-313-5*
Functions as cosmetic product:	Skin protecting
CPNP reference:	1454558
Customs tariff number:	1515 90 59
Spreading behaviour:	Medium
Origin:	Germany

\*Number of an expressed oil of vegetable origin consisting primarily of triglycerides of fatty acids (Vegetable oil / Olus oil)

## Physicochemical characteristics:

Parameter	Method	Range & unit
Density	ASU L 31.00-1, mod. oscillating U-tube	0.916 g/ml
Refractive index	DIN EN ISO 6320	1,467
Acid value	DGF C-V 2, titration	< 10*mg KOH/g (KOH = NaOH)
Saponification value	DGF C-V 3, 2002-05, Titration	212 mg KOH/g (KOH = NaOH)
Iodine value	DGF-C-V 11d, Wijs	65 g I2/100g Not drying
Peroxide value	DGF C-VI 6 <sup>a</sup>	• 10,0 meq O2/kg oil

\* The acid value, peroxide value and free fatty acids increase steadily during storage. However the product will have under suitable storage conditions at the end of the best before date an acid value • 4.0 mg KOH / g, a peroxide value • 15.0 meq O2 / kg oil and free fatty acids • 2.02 %.

## Fatty Acids composition

According to ISO 12966 mod.,GC/FID

Name	Family	Symbol*	%**
Palmitic acid	Saturated	16:0	34,3
Palmitoleic acid	Omega-7, mono unsaturated	16:1	35,4
Oleic acid	Omega-9, mono unsaturated	18:1	26,4
Linoleic acid	Omega-6, poly unsaturated	18:2	1,8
Alpha-Linolenic acid	Omega-3, poly unsaturated	18:3	0,8

\* Number of carbon atoms and of double bonds



Maitreya Natura

Further ingredients (Unsaponifiable fraction)	mg/kg (ppm) *	Sterols	% *
Beta-Carotene (Provitamin A)	280	24-methyl-cycloart-24(24')-en-3Beta-ol	0,81
Carotinoids	2300	24-methyl-cycloartenol	15,19
Fatty alcohols		4-Methyl-stigmasta-7,24-dien-ol	0,08
Flavonoids		4,14,24-Trimethyl-9,19-cyclo-ergost-24(24')-enol	0,32
Hydrocarbon (Kohlenwassersto•)		4,14-Dimethyl-9,19-cyclo-ergost-enol	1,53
Lecithin		9,19-Dimethyl-9,19-cyclo-ergost-enol	0,81
Sterols	1238	Beta-sitosterol	45,32
Tannin		Campestanol	3,72
Tocopherols	3044	Citrostadienol	5,57
Vitamin E, active	2306	Cycloartenol	5,25
Vitamin K		Delta-5,23-stigmastadienol	5,49
Xantophylles		Isofucosterol	8,64
Zinc		Stigmasta-5,24-dien-ol	3,47
		Stigmasta-7,24-dien-ol	0,81
		Stigmasta-8,24-dien-ol	1,13
		Stigmastanol	1,86

According to EU Health Claims Regulation No. 1024/2006 it is principally not permitted to use the term "Free from Cholesterol" on any product packaging, even in case that the oil not contain more than 5 mg Cholesterol per 100 g.

Vitamin E/ Tocopherols according to SAA L 006-51	mg/kg (ppm) *	
Vitamin E, active 1	2306	1 Calculated from the tocopherols.
Alpha-Tocopherol (•)	1844	
Beta-Tocopherol (•)	-	
Gamma-Tocopherol (•)	552	
Delta-Tocopherol (•)	648	

\* The given values are to be considered as approximate average values, which are based on scientific references and/or analysis.

#### Allergen status (if Food grade):

According to the REGULATION (EU) No 1169/2011 of 2011-October-25, Annex II, in this regard the oil contains the following allergens subject to labeling: none

#### Important information:

The specifications and the Material Safety Data Sheet the oil have to be observed. Due to this analysis report all former versions become invalid. All the values underlie natural fluctuations. This analysis report was provided to the best of our knowledge and belief. It serves information purposes only. A legally binding assurance of certain characteristics or of the appropriateness in a specific context of usage cannot be derived from our analysis report. The Analysis report is only binding, when explicitly agreed upon in written form. Hence, all values have to be validated by the customer himself and do not release him from his quality responsibility and duty to take care when processing our oil.